

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081220\  
 Data File : VW016169.D  
 Acq On : 12 Aug 2020 18:36  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 13 01:28:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 13 01:23:48 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 405476   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 375030   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 188083   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 99007    | 19.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 78.76%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 78453    | 20.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.24%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 236705   | 22.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 88.68%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 66952    | 50.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.22% |
| 24) Chloroform-d               | 7.65   | 84    | 249474   | 22.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 91.72%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 129953   | 22.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 89.92%  |
| 29) Benzene-d6                 | 8.27   | 84    | 496225   | 24.32    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 97.28%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 143903   | 23.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 95.96%  |
| 37) Toluene-d8                 | 10.32  | 98    | 443575   | 23.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 94.84%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 63184    | 23.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 93.72%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 56698    | 54.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 109.56% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 126636   | 25.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 103.72% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 154631   | 23.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.76%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 118883 | 29.023 | ug/L 96  |
| 3) Chloromethane               | 2.21 | 50  | 98337  | 24.175 | ug/L 99  |
| 5) Vinyl chloride              | 2.37 | 62  | 131405 | 24.340 | ug/L 100 |
| 6) Bromomethane                | 2.78 | 94  | 79654  | 23.558 | ug/L 98  |
| 8) Chloroethane                | 2.92 | 64  | 74454  | 24.491 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.25 | 101 | 88029  | 22.843 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 144442 | 26.523 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 138438 | 26.601 | ug/L 96  |
| 13) Acetone                    | 4.12 | 43  | 48898  | 48.864 | ug/L 95  |
| 14) Carbon disulfide           | 4.37 | 76  | 426459 | 26.106 | ug/L 98  |
| 15) Methyl Acetate             | 4.67 | 43  | 60297  | 25.626 | ug/L 95  |
| 16) Methylene chloride         | 4.92 | 84  | 147487 | 23.036 | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 184157 | 24.971 | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 145166 | 26.518 | ug/L 89  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 245664 | 25.364 | ug/L 98  |
| 21) 2-Butanone                 | 7.17 | 43  | 80339  | 50.656 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 153696 | 26.614 | ug/L 91  |

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 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

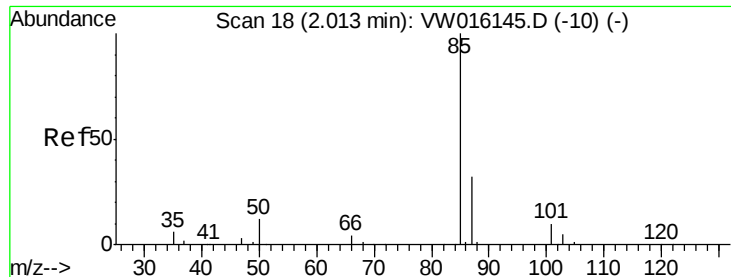
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 13 01:28:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 13 01:23:48 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 72604    | 27.393 | ug/L  | 91       |
| 25) Chloroform                 | 7.68  | 83   | 262045   | 25.430 | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 165604   | 24.126 | ug/L  | 99       |
| 30) Cyclohexane                | 7.96  | 56   | 220340   | 27.002 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 212944   | 24.710 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 202381   | 24.830 | ug/L  | 96       |
| 34) Benzene                    | 8.32  | 78   | 582807   | 26.948 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 151680   | 26.083 | ug/L  | 98       |
| 36) Methylcyclohexane          | 9.34  | 83   | 260908   | 27.235 | ug/L  | 98       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 140822   | 26.515 | ug/L  | 99       |
| 41) Bromodichloromethane       | 9.65  | 83   | 188926   | 25.895 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 216861   | 26.812 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 173882   | 54.434 | ug/L  | 99       |
| 44) Toluene                    | 10.39 | 91   | 629218   | 27.562 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 192721   | 26.525 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 111475   | 26.665 | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.86 | 164  | 114247   | 26.206 | ug/L  | 98       |
| 49) 2-Hexanone                 | 10.97 | 43   | 122728   | 56.938 | ug/L  | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 129996   | 26.402 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 107895   | 27.223 | ug/L  | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 405462   | 26.842 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 698787   | 26.978 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.84 | 106  | 267112   | 27.414 | ug/L  | 95       |
| 55) o-xylene                   | 12.16 | 106  | 252430   | 27.505 | ug/L  | 98       |
| 56) Styrene                    | 12.18 | 104  | 453030   | 28.511 | ug/L  | 98       |
| 57) Isopropylbenzene           | 12.46 | 105  | 679018   | 27.441 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 134809   | 27.637 | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 98863    | 26.753 | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 69421    | 24.408 | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 307652   | 25.898 | ug/L  | 96       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 307549   | 25.414 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 283687   | 26.046 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 22635    | 23.700 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 197389   | 26.333 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 163129   | 26.851 | ug/L  | 98       |
| 69) Naphthalene                | 15.37 | 128  | 371574   | 28.976 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 152954   | 27.712 | ug/L  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





#2

Dichlorodifluoromethane

Concen: 29.023 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

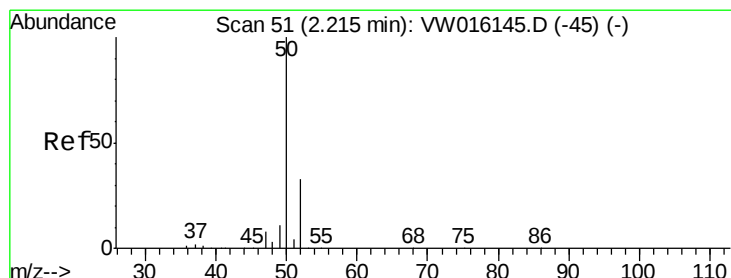
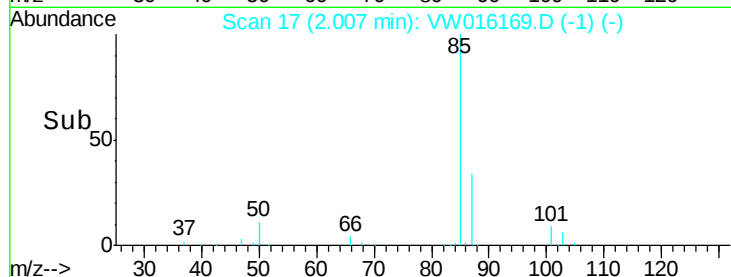
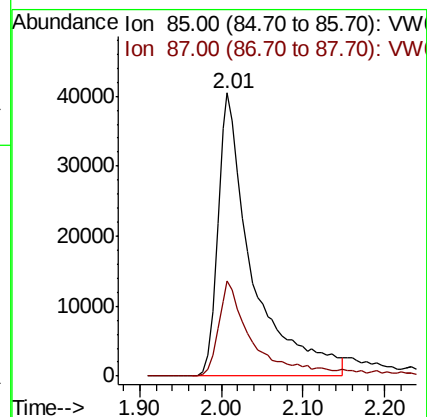
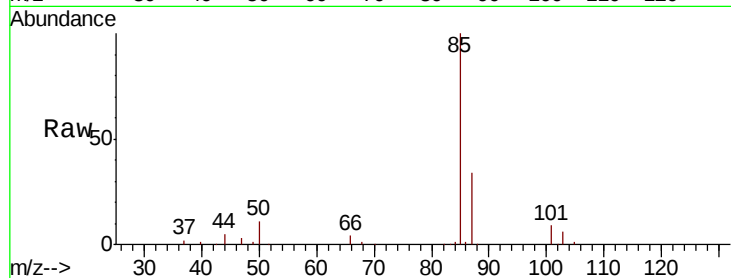
ClientSampleId :

Tot Ion: 85 Resp: 118883

Ion Ratio Lower Upper

85 100

87 29.5 22.0 41.0



#3

Chloromethane

Concen: 24.175 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW016169.D

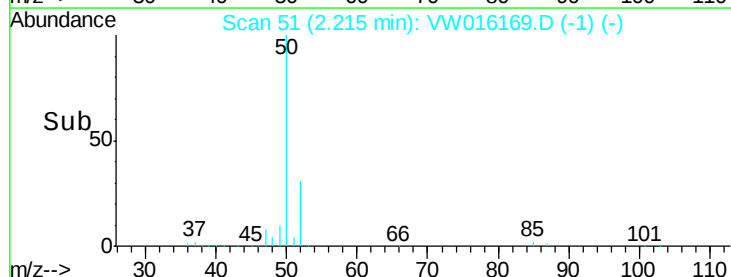
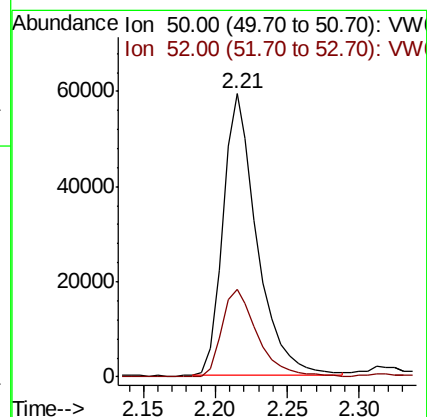
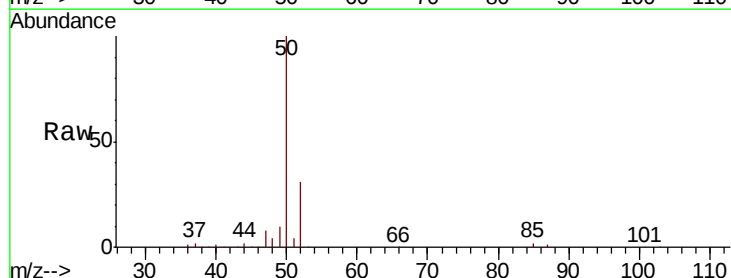
Acq: 12 Aug 2020 18:36

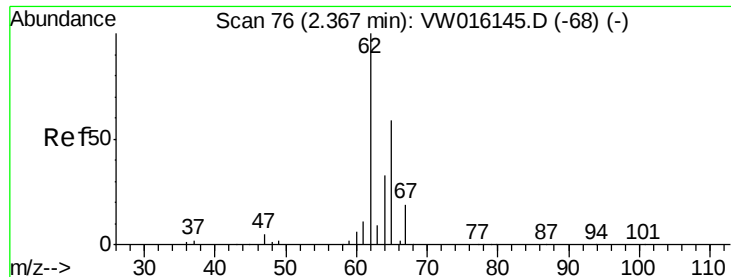
Tgt Ion: 50 Resp: 98337

Ion Ratio Lower Upper

50 100

52 30.7 22.0 40.8





#5

Vinyl chloride

Concen: 24.340 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

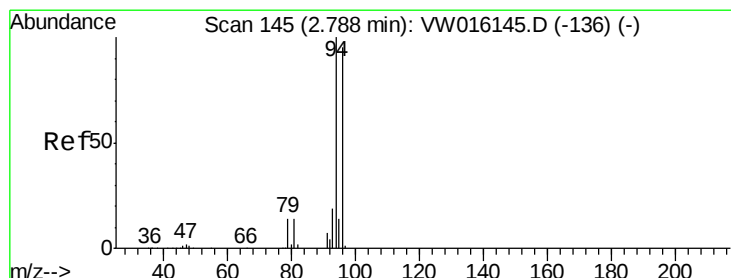
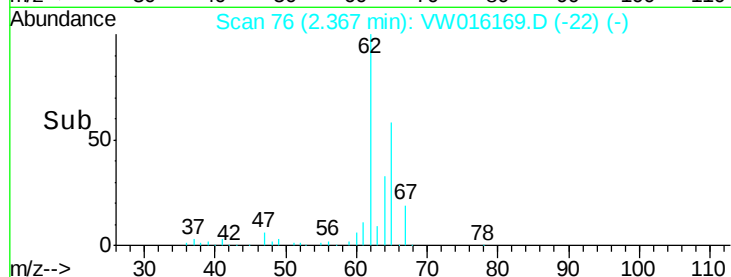
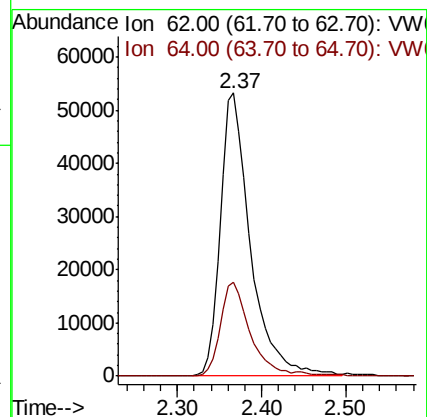
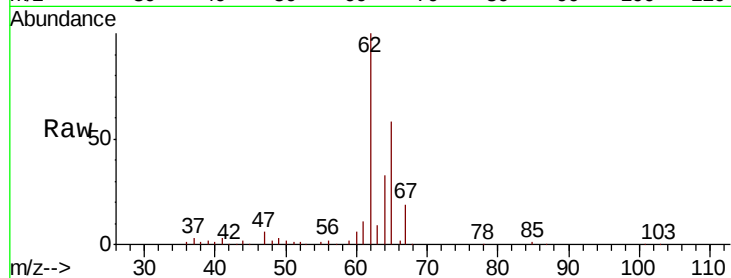
ClientSampled :

Tot Ion: 62 Resp: 131405

Ion Ratio Lower Upper

62 100

64 33.1 23.0 42.8



#6

Bromomethane

Concen: 23.558 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.01 min

Lab File: VW016169.D

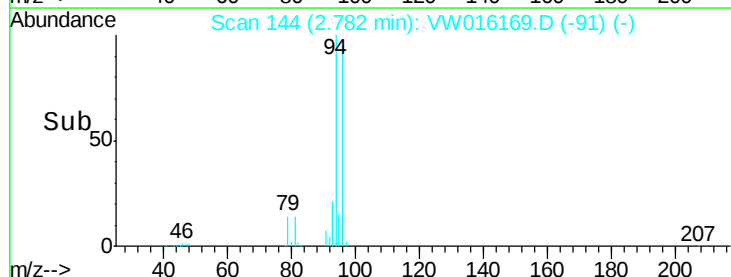
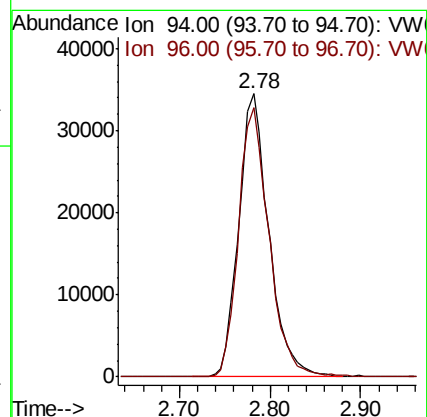
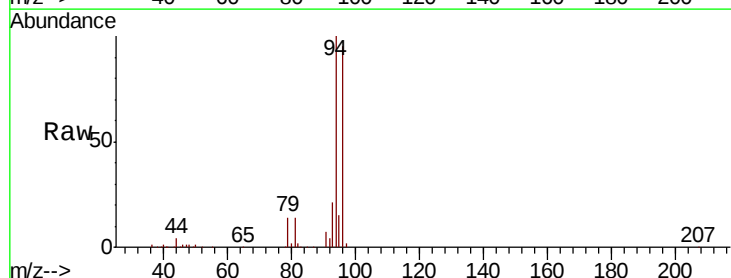
Acq: 12 Aug 2020 18:36

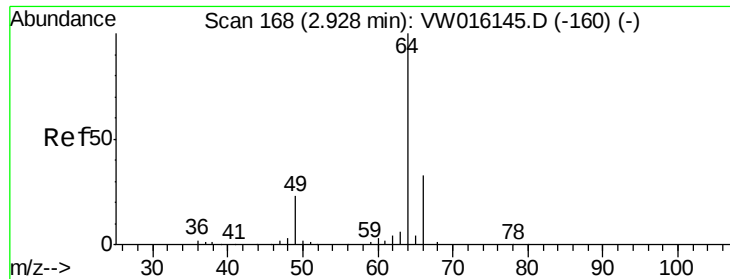
Tgt Ion: 94 Resp: 79654

Ion Ratio Lower Upper

94 100

96 96.0 9.4 178.2

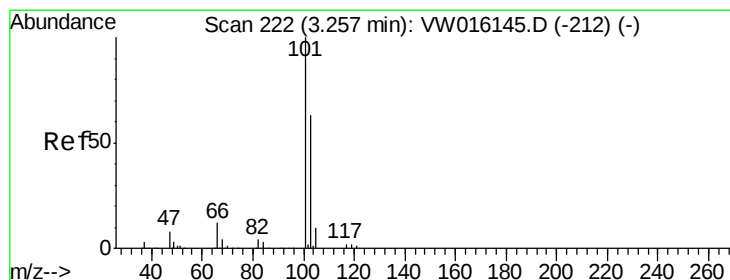
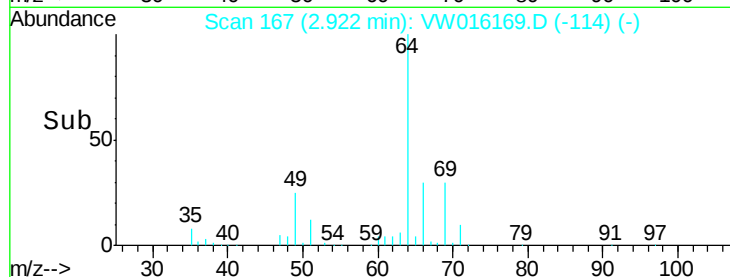
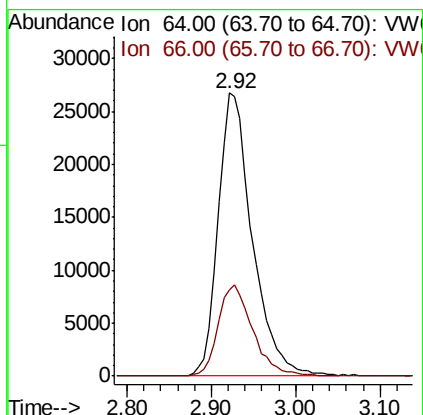
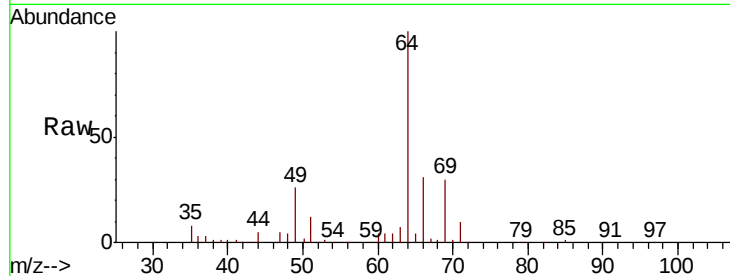




#8  
Chloroethane  
Concen: 24.491 ug/L  
RT: 2.92 min Scan# 167  
Delta R.T. -0.01 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

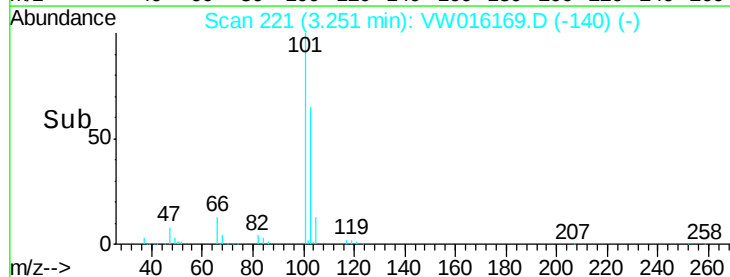
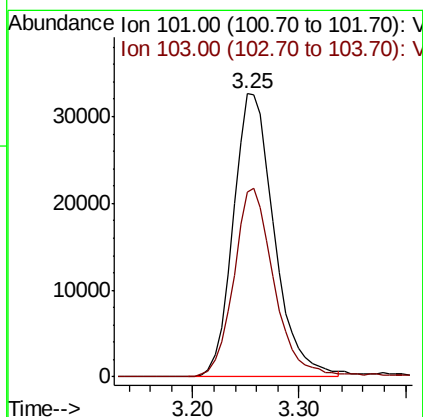
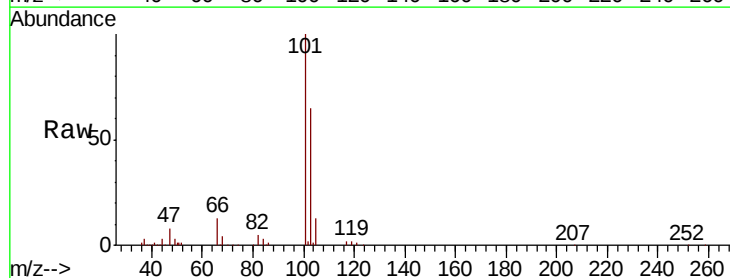
Instrument :  
MSVOA\_W  
ClientSampled :

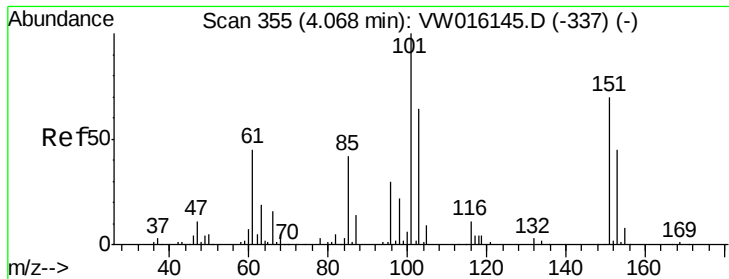
Tot Ion: 64 Resp: 74454  
Ion Ratio Lower Upper  
64 100  
66 30.6 21.8 40.4



#9  
Trichlorofluoromethane  
Concen: 22.843 ug/L  
RT: 3.25 min Scan# 221  
Delta R.T. -0.01 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Tgt Ion:101 Resp: 88029  
Ion Ratio Lower Upper  
101 100  
103 65.2 45.6 84.6





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 26.523 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

ClientSampled :

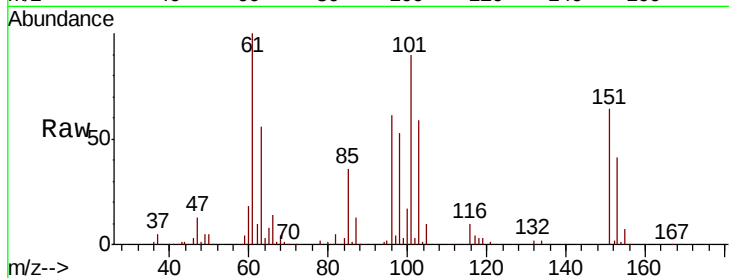
Tot Ion:101 Resp: 144442

Ion Ratio Lower Upper

101 100

85 41.5 34.2 51.4

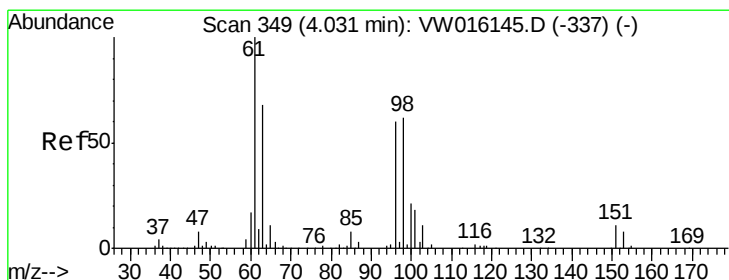
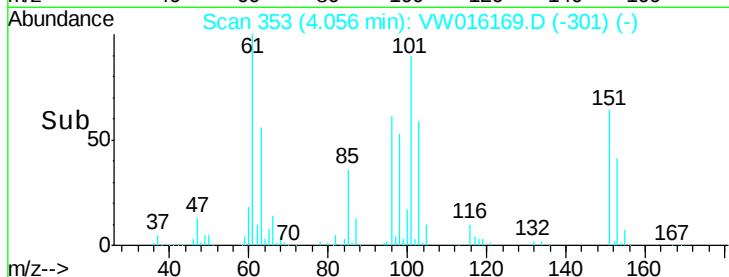
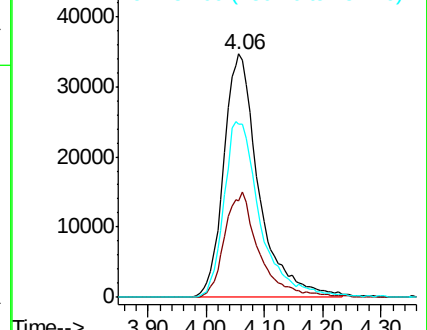
151 71.5 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.601 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

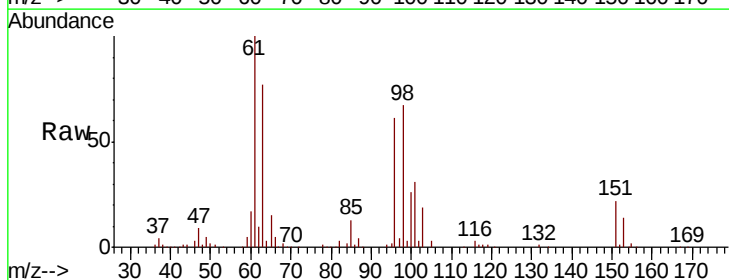
Tgt Ion: 96 Resp: 138438

Ion Ratio Lower Upper

96 100

61 162.7 120.2 223.2

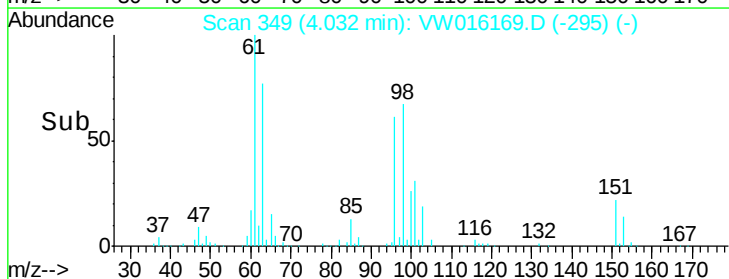
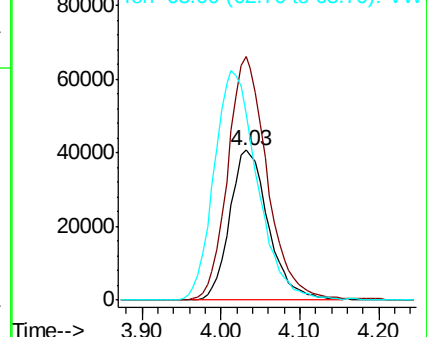
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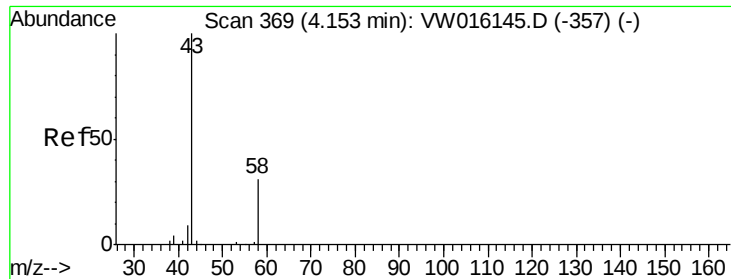


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 48.864 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.03 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

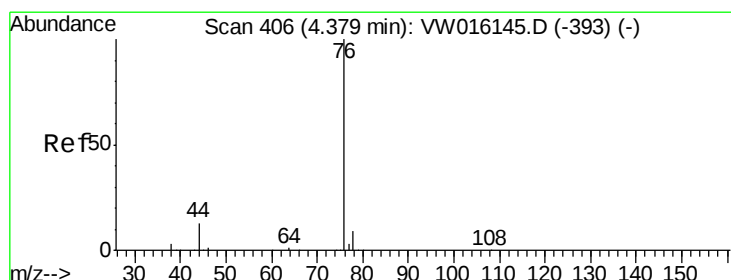
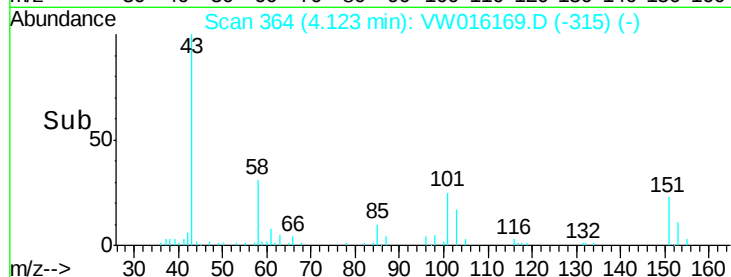
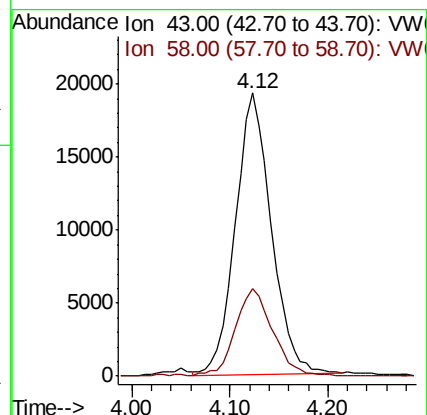
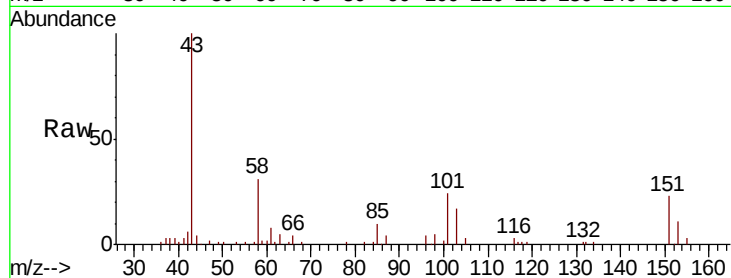
ClientSampleId :

Tot Ion: 43 Resp: 48898

Ion Ratio Lower Upper

43 100

58 32.4 0.0 59.4



#14

Carbon disulfide

Concen: 26.106 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW016169.D

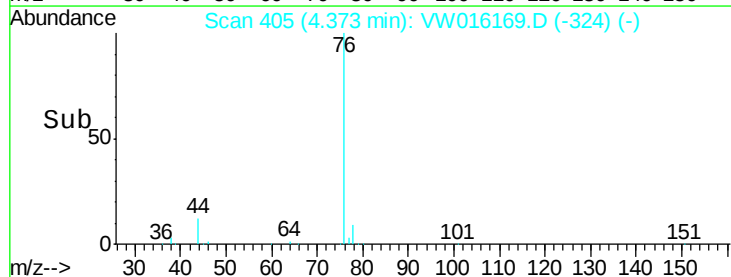
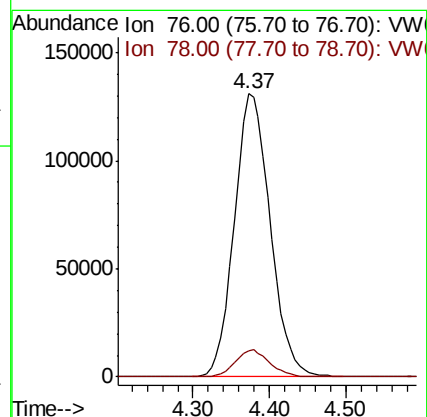
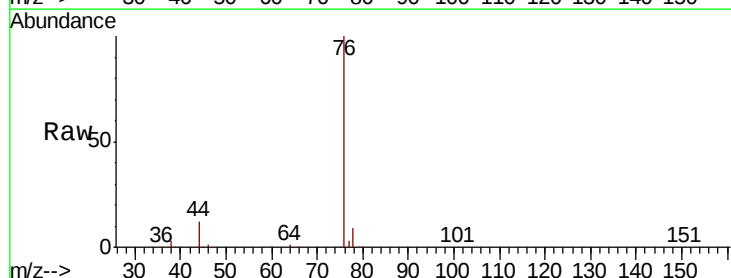
Acq: 12 Aug 2020 18:36

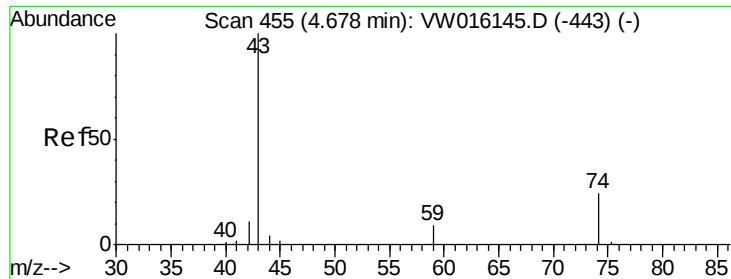
Tgt Ion: 76 Resp: 426459

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4

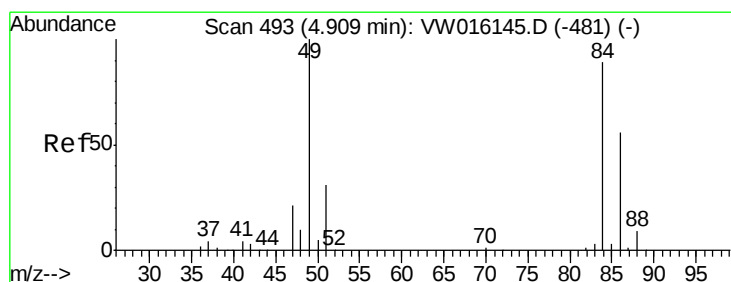
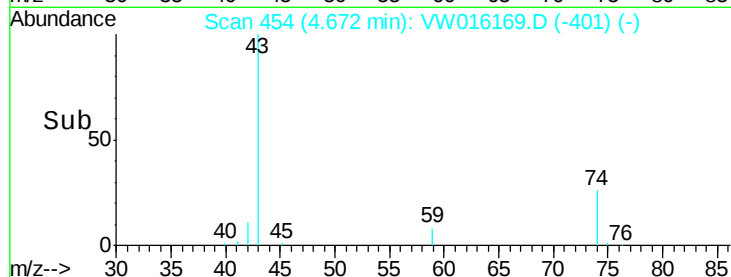
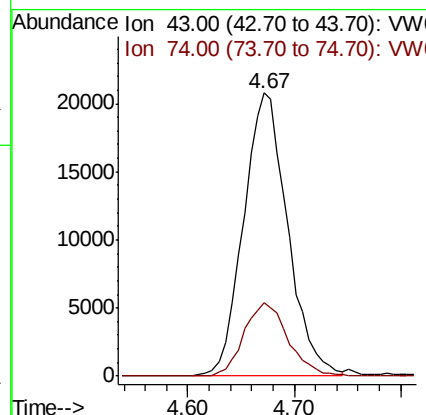
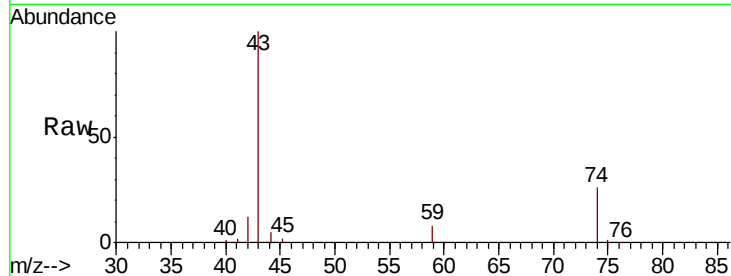




#15  
Methvl Acetate  
Concen: 25.626 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. -0.01 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

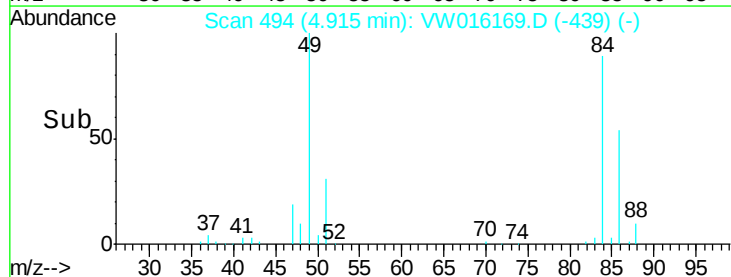
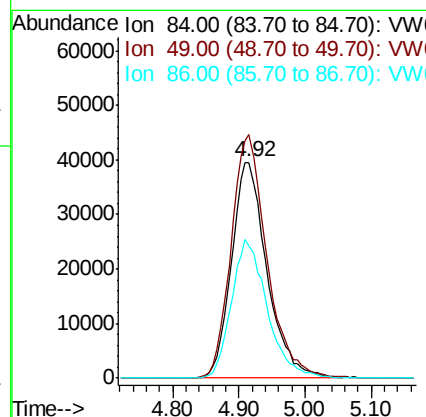
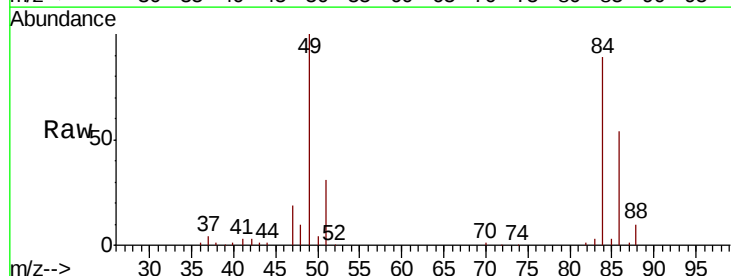
Instrument :  
MSVOA\_W  
ClientSampleId :

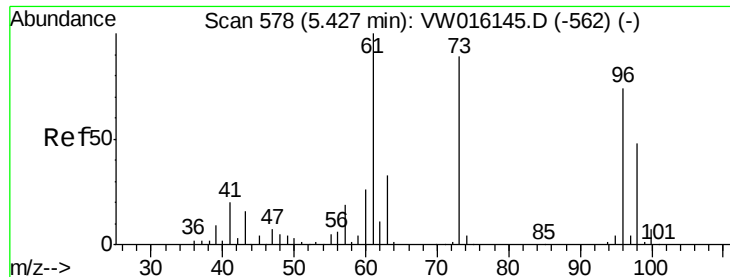
Tot Ion: 43 Resp: 60297  
Ion Ratio Lower Upper  
43 100  
74 26.0 18.9 28.3



#16  
Methylene chloride  
Concen: 23.036 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Tgt Ion: 84 Resp: 147487  
Ion Ratio Lower Upper  
84 100  
49 112.8 80.4 149.4  
86 61.2 43.8 81.3

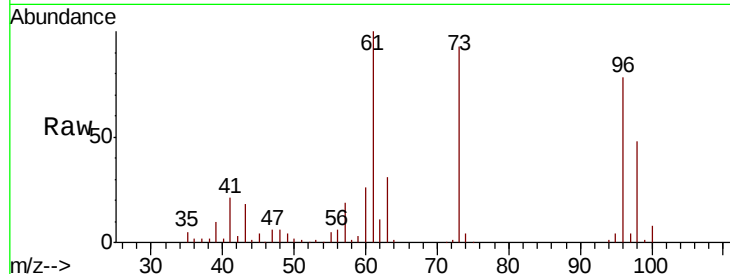




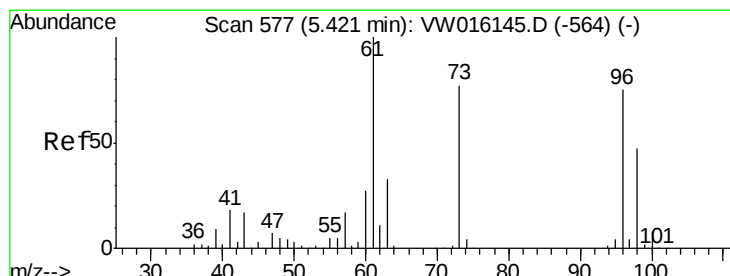
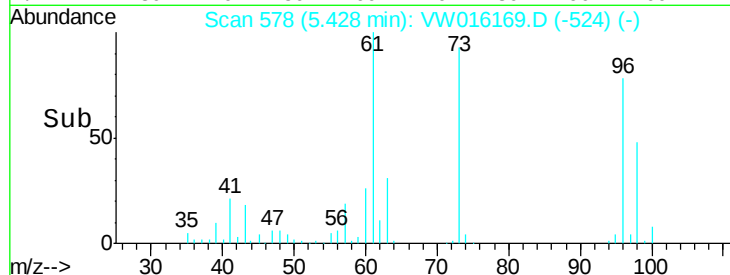
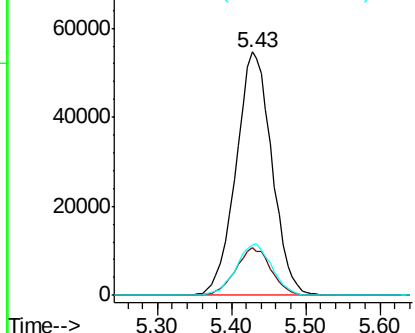
#17  
Methvl tert-butvl Ether  
Concen: 24.971 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 73 Resp: 184157  
Ion Ratio Lower Upper  
73 100  
43 19.5 16.6 24.8  
57 21.1 17.1 25.7

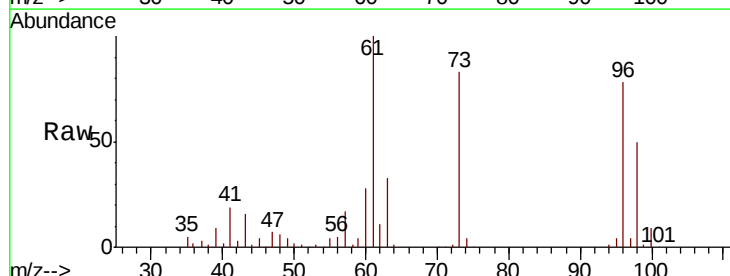


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

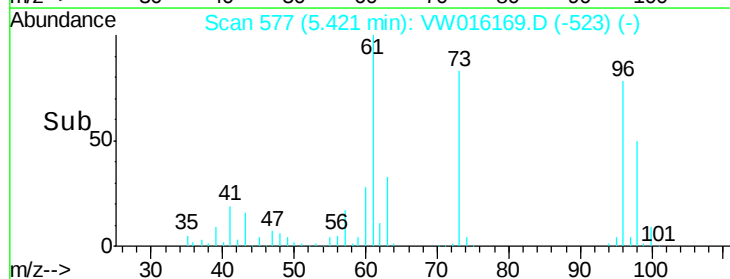
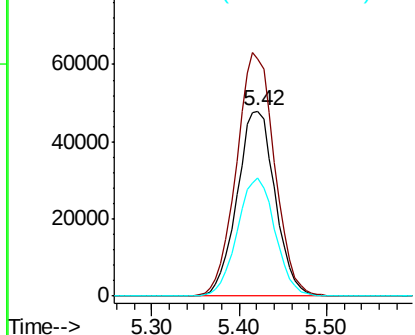


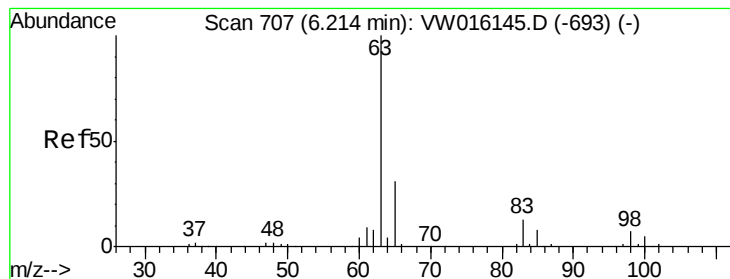
#18  
trans-1,2-Dichloroethene  
Concen: 26.518 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Tgt Ion: 96 Resp: 145166  
Ion Ratio Lower Upper  
96 100  
61 128.1 101.6 188.8  
98 63.7 47.7 88.7



Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 25.364 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

ClientSampleId :

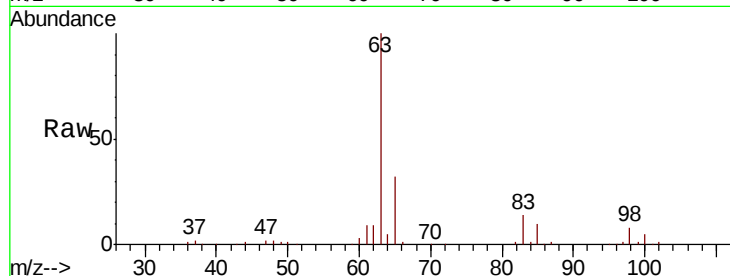
Tot Ion: 63 Resp: 245664

Ion Ratio Lower Upper

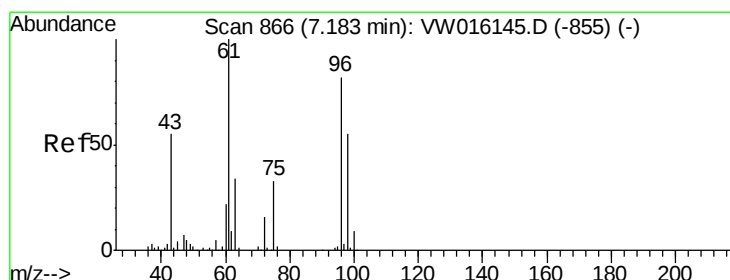
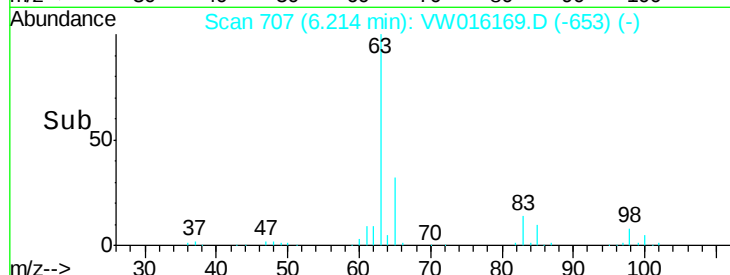
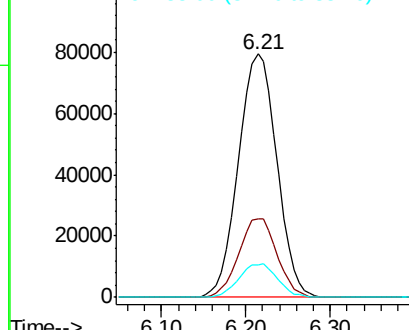
63 100

65 32.5 21.6 40.0

83 13.6 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VW  
Ion 65.00 (64.70 to 65.70): VW  
Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 50.656 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW016169.D

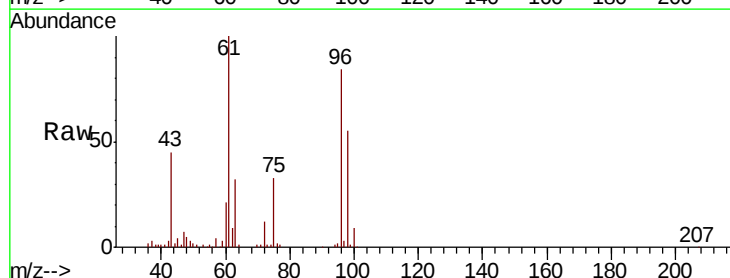
Acq: 12 Aug 2020 18:36

Tgt Ion: 43 Resp: 80339

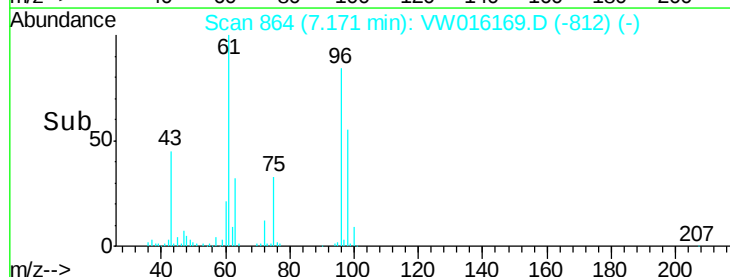
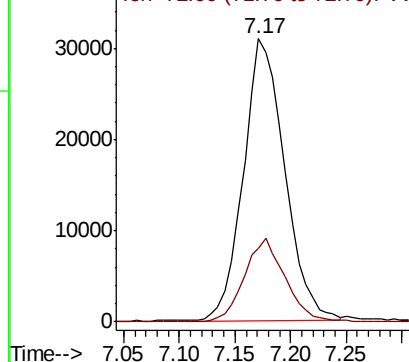
Ion Ratio Lower Upper

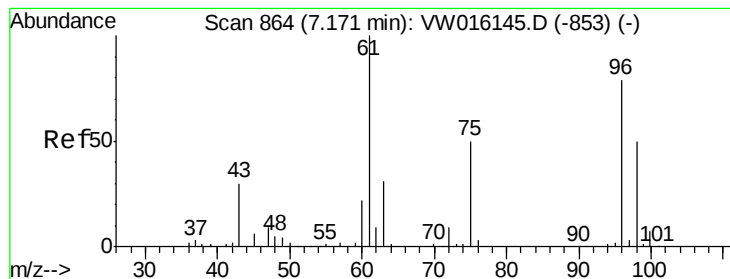
43 100

72 28.9 13.9 41.7



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW



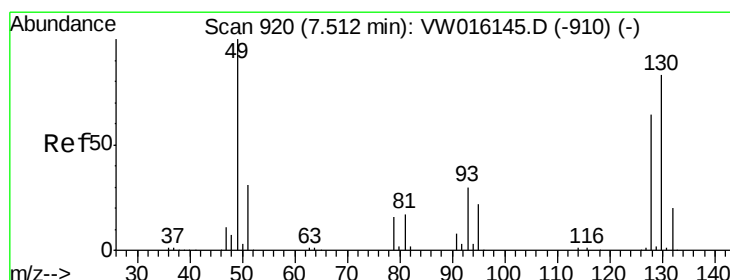
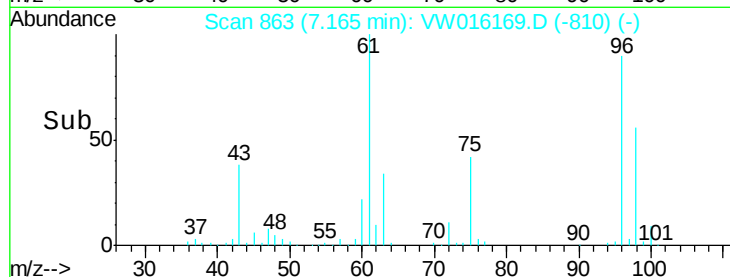
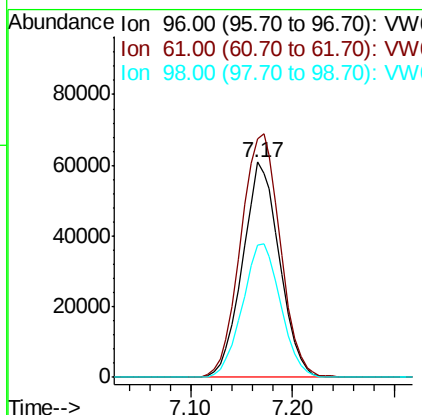
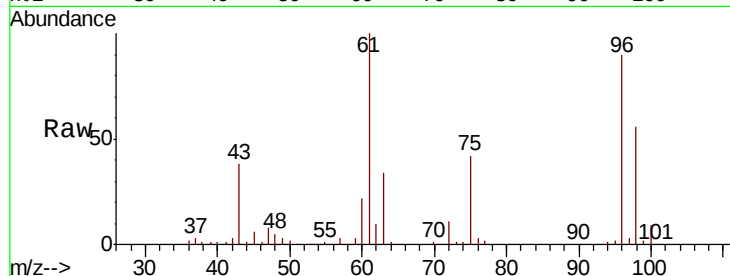


#22

cis-1,2-Dichloroethene  
 Concen: 26.614 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

Instrument :  
 MSVOA\_W  
 ClientSampled :

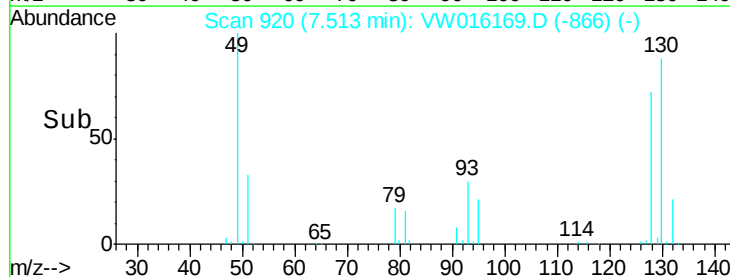
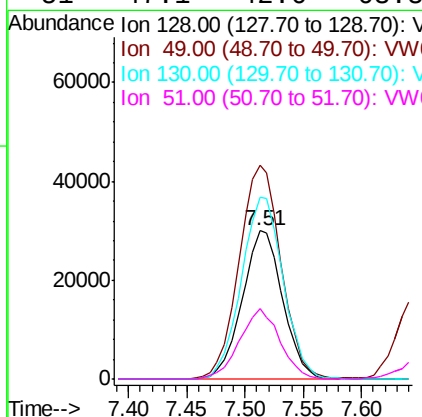
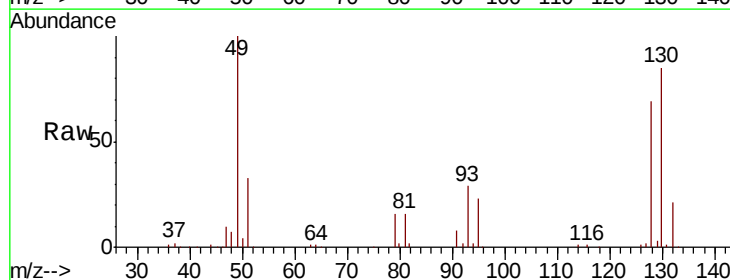
Tot Ion: 96 Resp: 153696  
 Ion Ratio Lower Upper  
 96 100  
 61 110.7 87.0 161.6  
 98 61.5 44.0 81.6

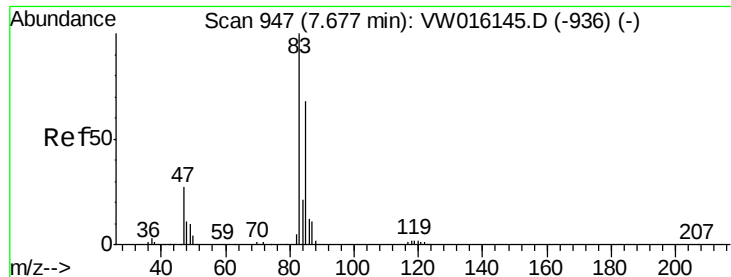


#23

Bromochloromethane  
 Concen: 27.393 ug/L  
 RT: 7.51 min Scan# 920  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

Tgt Ion: 128 Resp: 72604  
 Ion Ratio Lower Upper  
 128 100  
 49 144.1 111.8 207.6  
 130 122.7 90.6 168.3  
 51 47.1 42.6 63.8

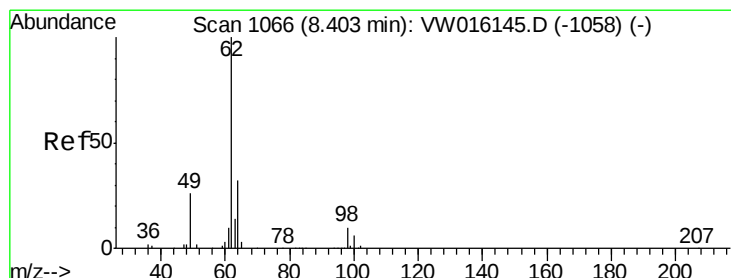
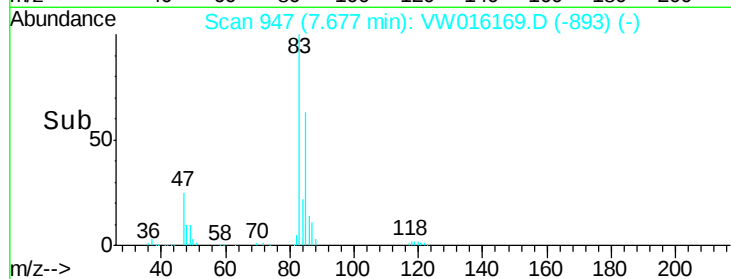
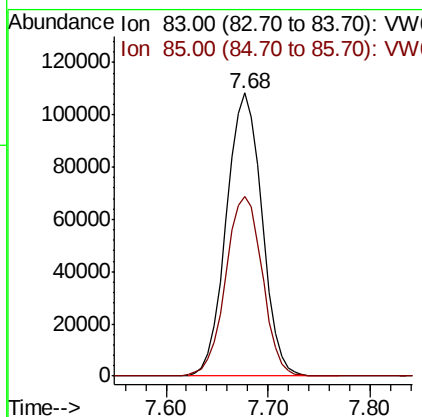
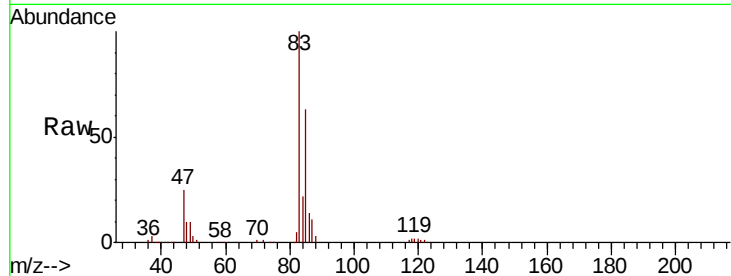




#25  
Chloroform  
Concen: 25.430 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

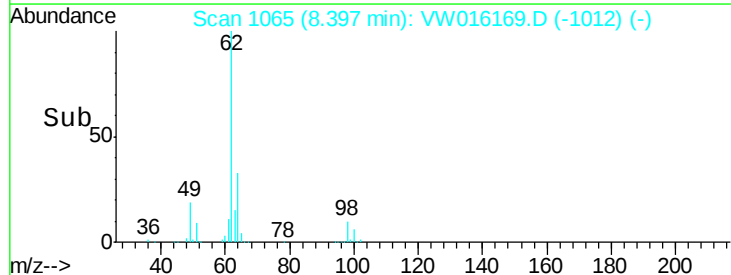
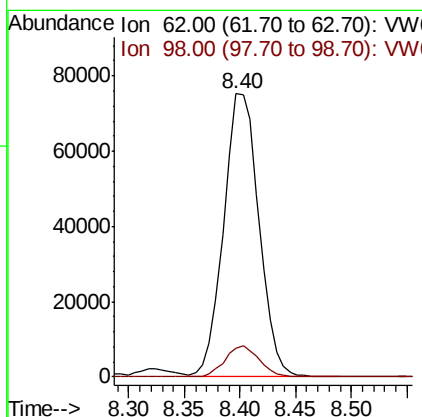
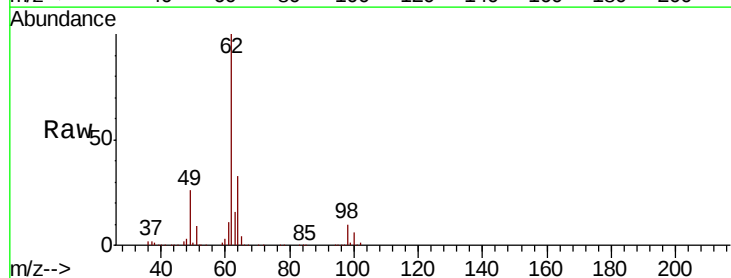
Instrument :  
MSVOA\_W  
ClientSampleId :

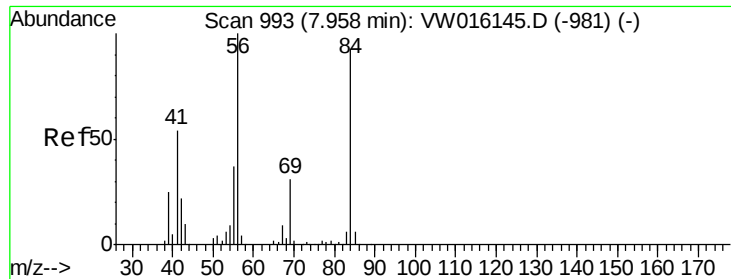
Tot Ion: 83 Resp: 262045  
Ion Ratio Lower Upper  
83 100  
85 65.4 46.0 85.4



#27  
1,2-Dichloroethane  
Concen: 24.126 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.01 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Tgt Ion: 62 Resp: 165604  
Ion Ratio Lower Upper  
62 100  
98 10.1 7.7 11.5

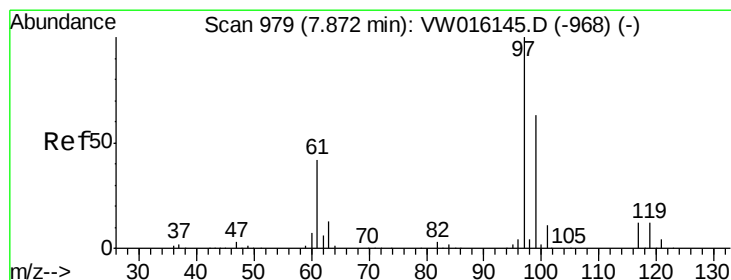
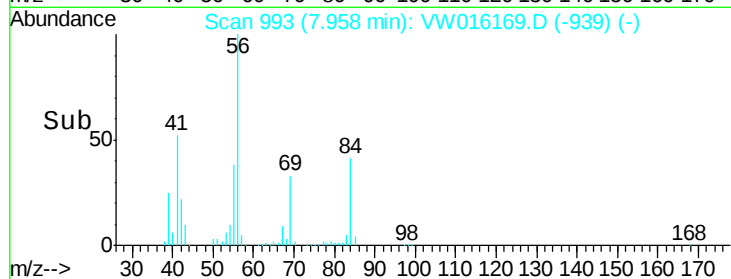
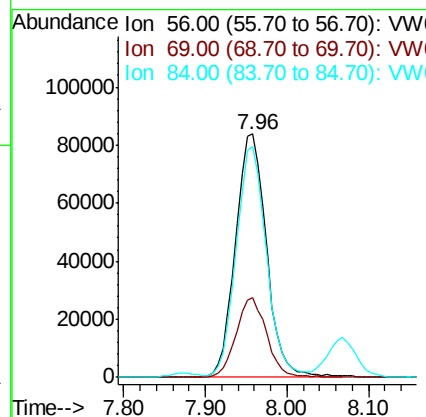
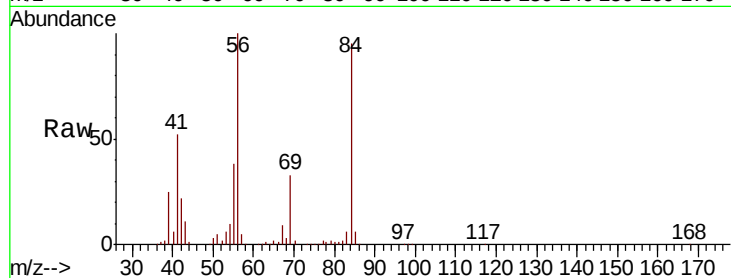




#30  
Cyclohexane  
Concen: 27.002 ug/L  
RT: 7.96 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

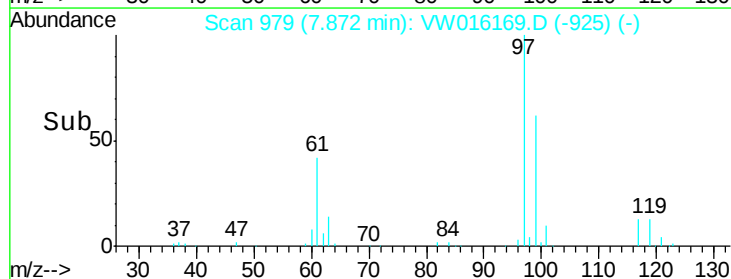
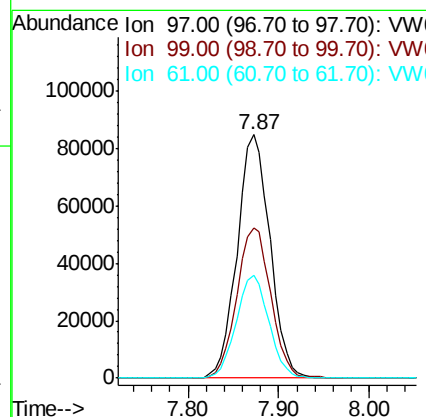
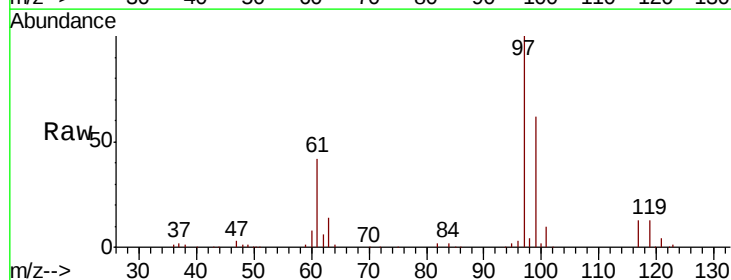
Instrument :  
MSVOA\_W  
ClientSampleId :

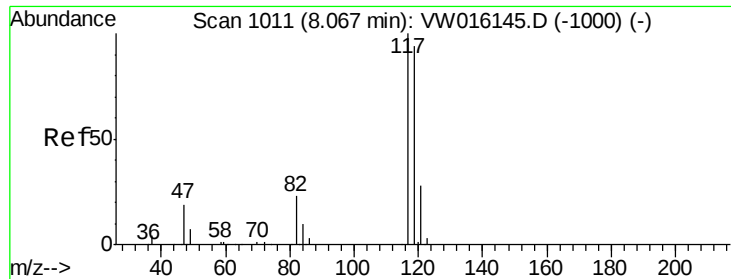
Tot Ion: 56 Resp: 220340  
Ion Ratio Lower Upper  
56 100  
69 32.2 25.4 38.0  
84 92.8 73.0 109.6



#31  
1,1,1-Trichloroethane  
Concen: 24.710 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Tgt Ion: 97 Resp: 212944  
Ion Ratio Lower Upper  
97 100  
99 64.0 51.6 77.4  
61 42.1 34.5 51.7





#32

Carbon tetrachloride

Concen: 24.830 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

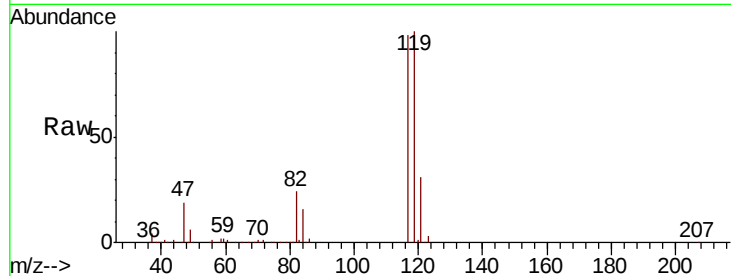
ClientSampleId :

Tot Ion:117 Resp: 202381

Ion Ratio Lower Upper

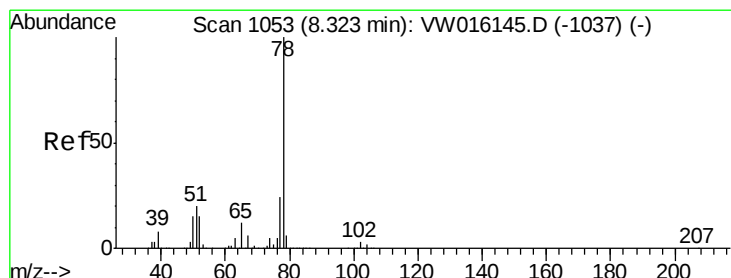
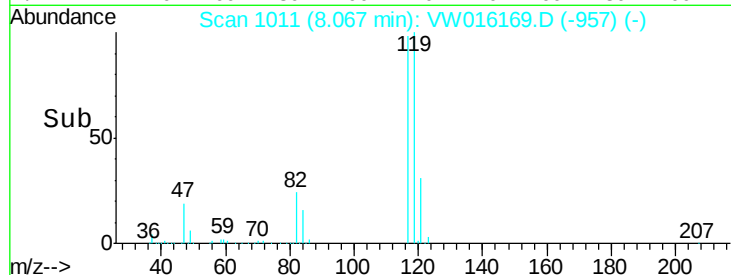
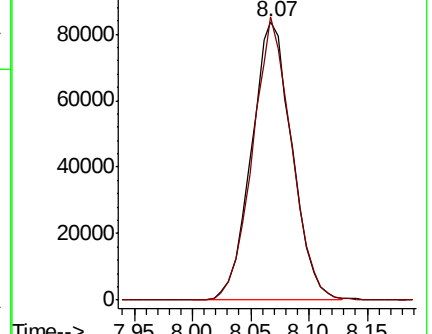
117 100

119 97.4 75.2 112.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.948 ug/L

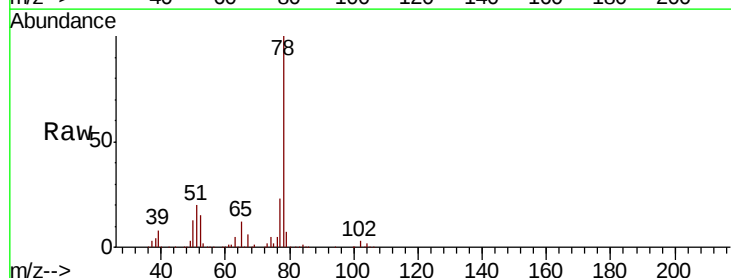
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

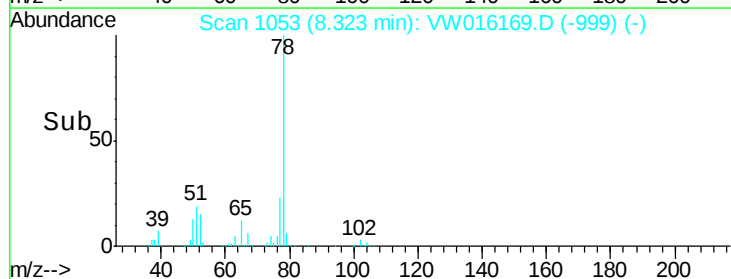
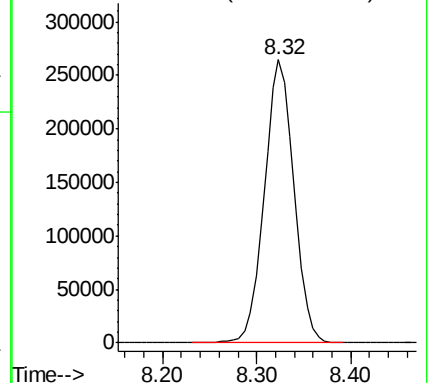
Lab File: VW016169.D

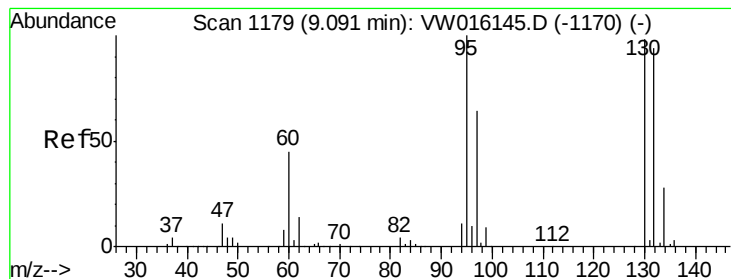
Acq: 12 Aug 2020 18:36

Tgt Ion: 78 Resp: 582807



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 26.083 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 95 Resp: 151680

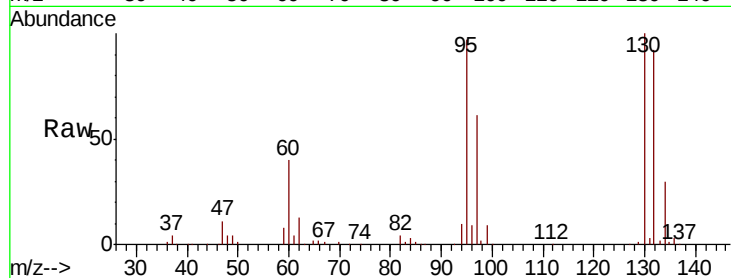
Ion Ratio Lower Upper

95 100

97 63.9 44.9 83.3

132 97.3 65.8 122.2

130 101.8 69.5 129.1



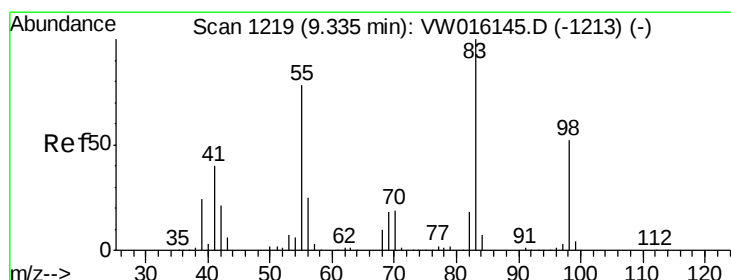
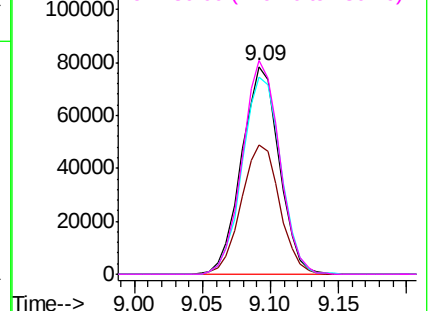
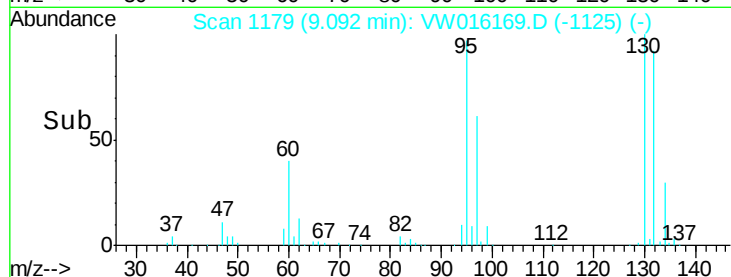
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 27.235 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

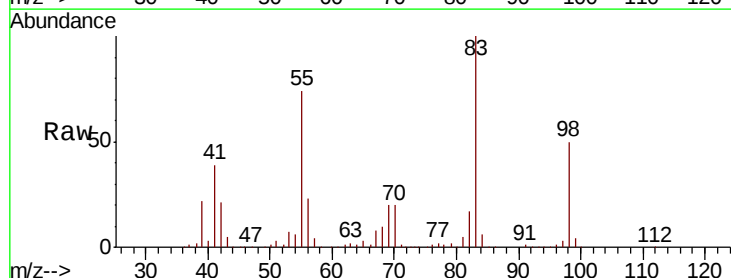
Tgt Ion: 83 Resp: 260908

Ion Ratio Lower Upper

83 100

55 74.0 60.7 91.1

98 50.0 39.4 59.0

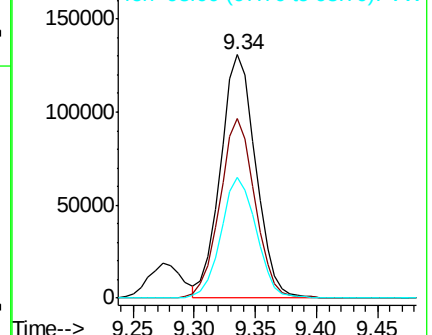
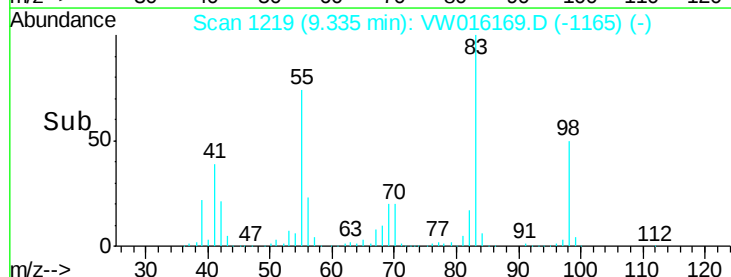


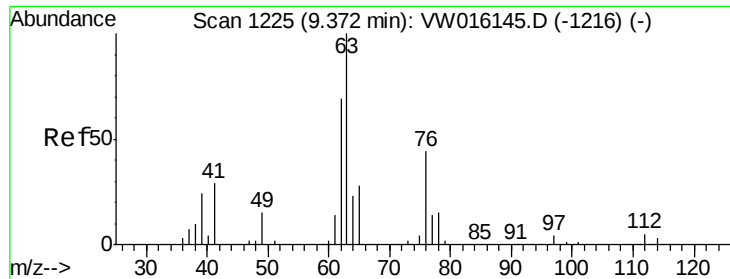
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

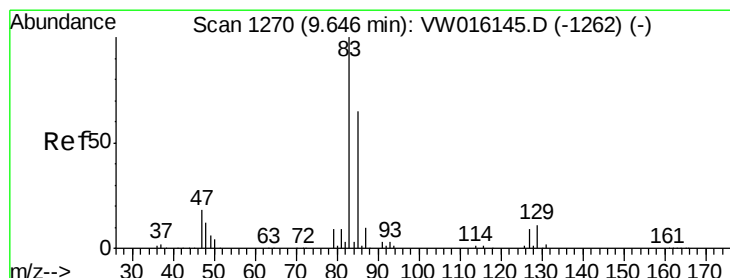
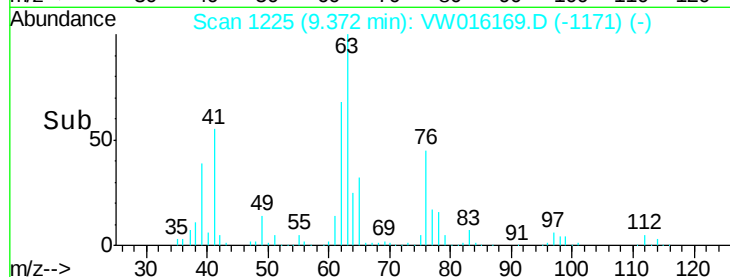
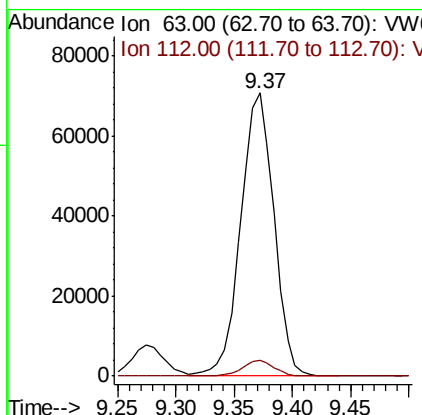
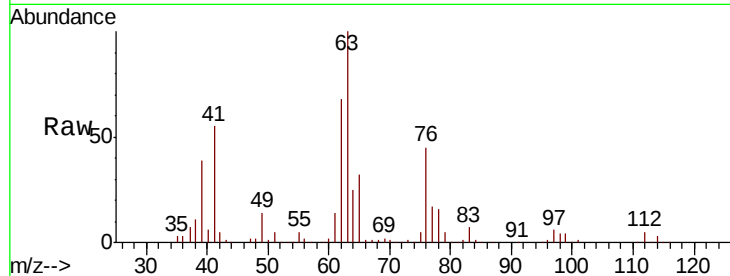




#40  
 1,2-Dichloropropane  
 Concen: 26.515 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

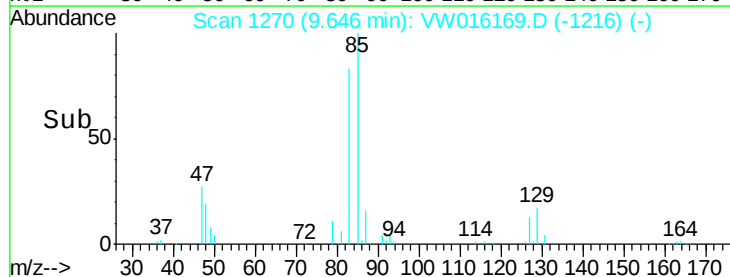
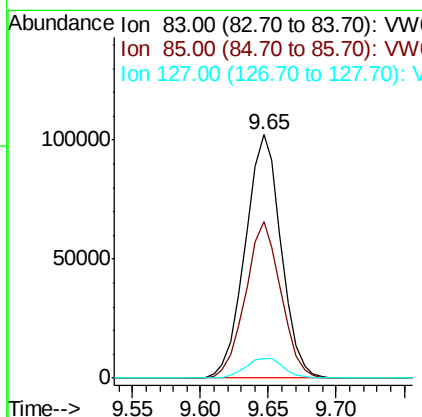
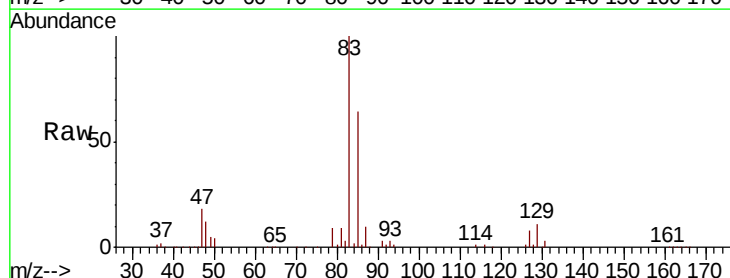
Instrument :  
 MSVOA\_W  
 ClientSampled :

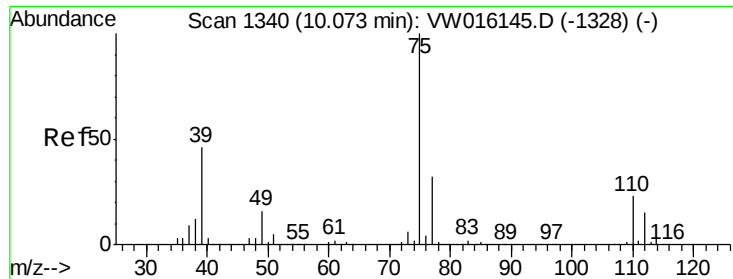
Tot Ion: 63 Resp: 140822  
 Ion Ratio Lower Upper  
 63 100  
 112 5.4 4.0 6.0



#41  
 Bromodichloromethane  
 Concen: 25.895 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

Tgt Ion: 83 Resp: 188926  
 Ion Ratio Lower Upper  
 83 100  
 85 64.1 46.1 85.5  
 127 8.3 7.2 10.8





#42

cis-1,3-Dichloropropene

Concen: 26.812 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

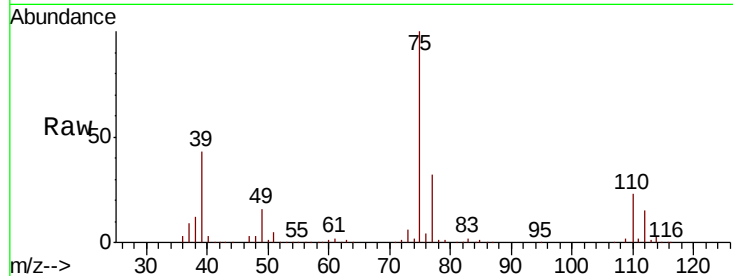
ClientSampled :

Tot Ion: 75 Resp: 216861

Ion Ratio Lower Upper

75 100

77 32.2 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

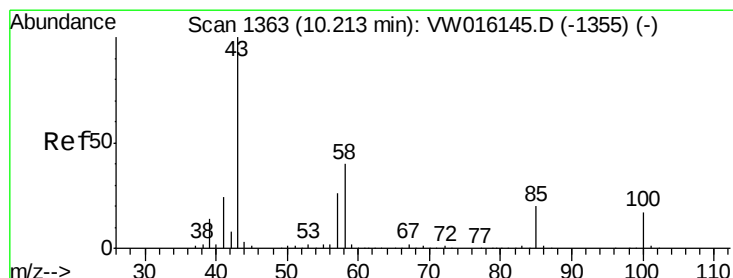
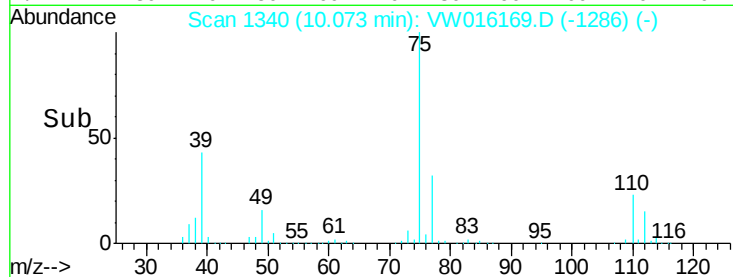
10.07

100000

50000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 54.434 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

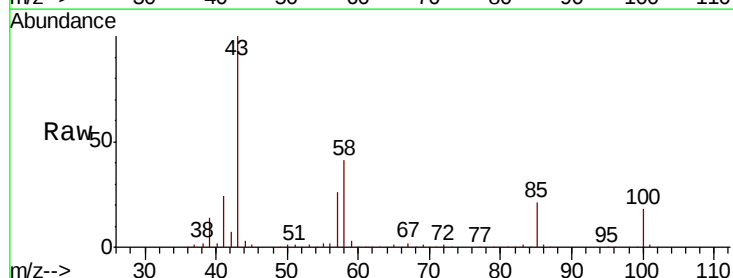
Tgt Ion: 43 Resp: 173882

Ion Ratio Lower Upper

43 100

58 40.5 32.1 48.1

100 18.1 13.8 20.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

200000

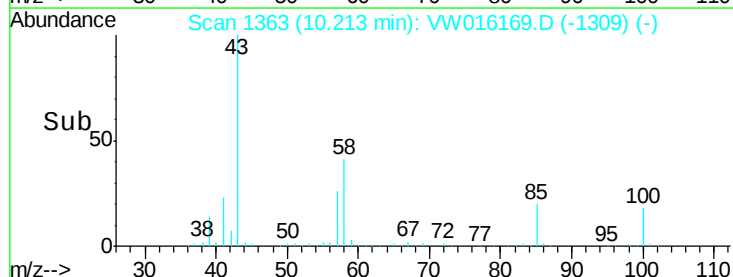
150000

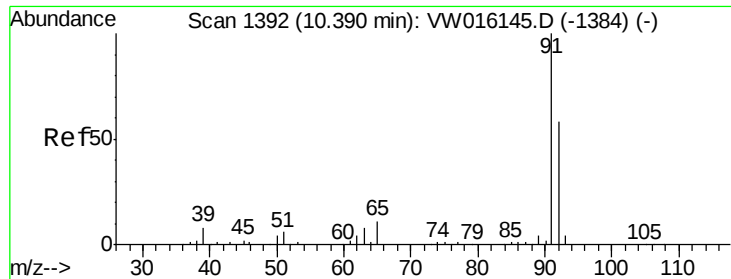
100000

50000

0

Time-->





#44

Toluene

Concen: 27.562 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

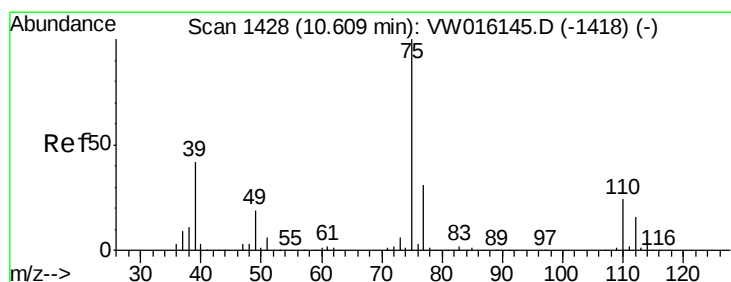
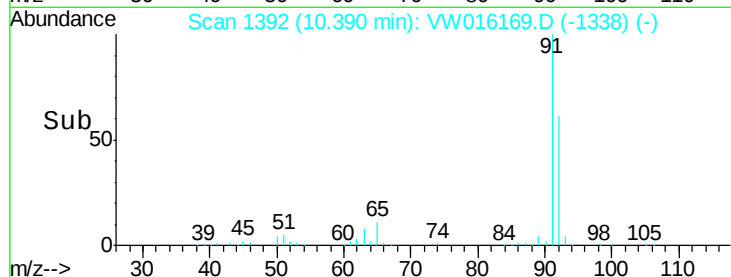
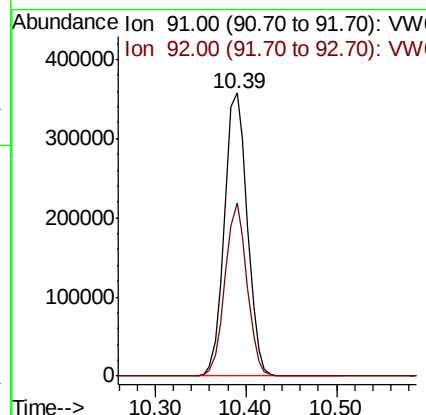
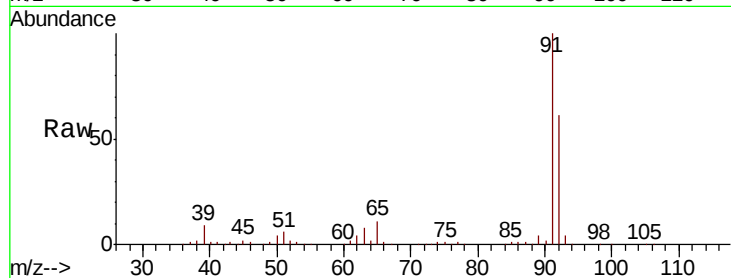
ClientSampleId :

Tot Ion: 91 Resp: 629218

Ion Ratio Lower Upper

91 100

92 61.4 41.8 77.6



#45

trans-1,3-Dichloropropene

Concen: 26.525 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016169.D

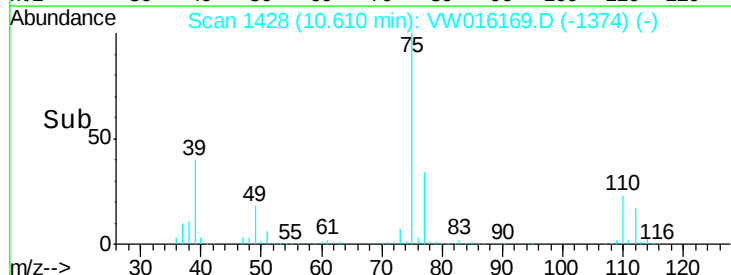
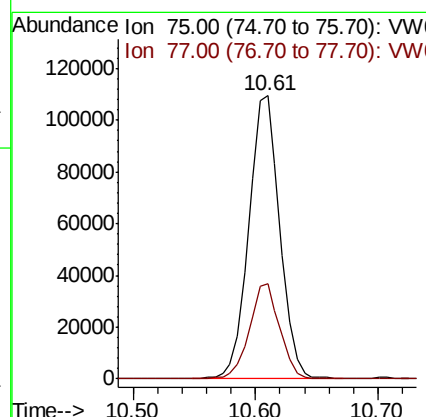
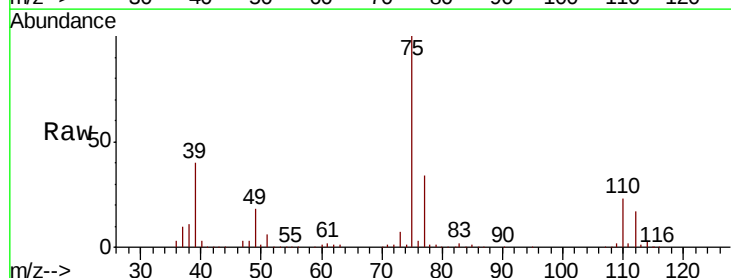
Acq: 12 Aug 2020 18:36

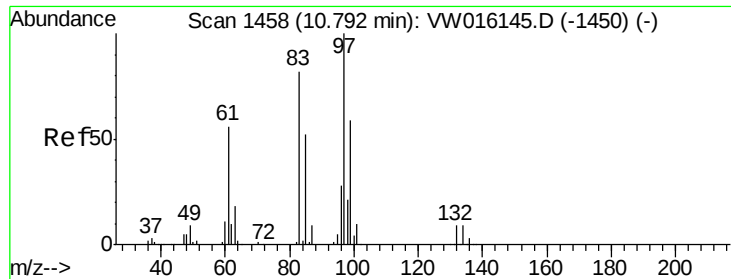
Tgt Ion: 75 Resp: 192721

Ion Ratio Lower Upper

75 100

77 33.5 22.7 42.1

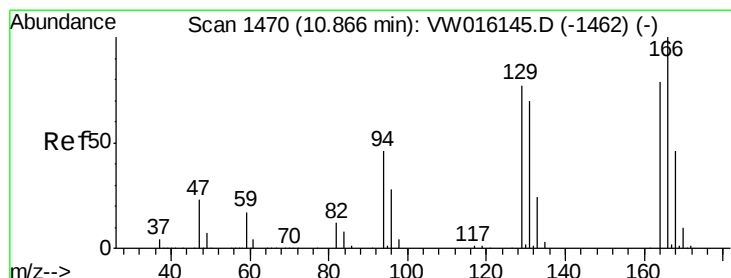
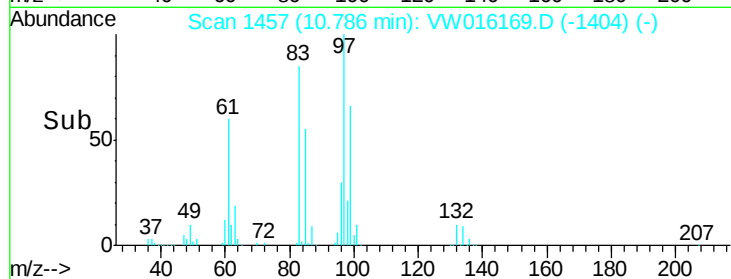
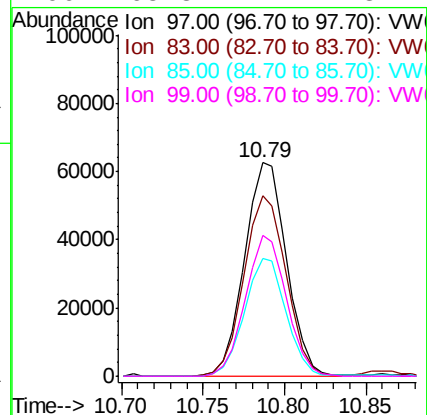
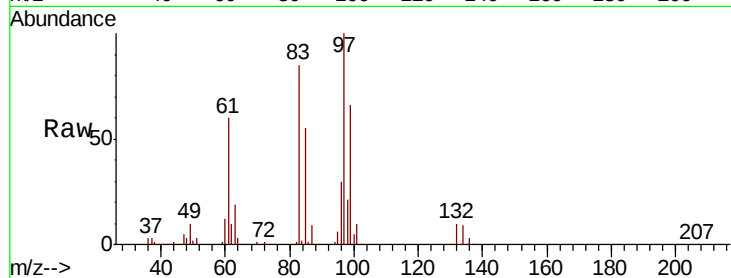




#46  
 1,1,2-Trichloroethane  
 Concen: 26.665 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

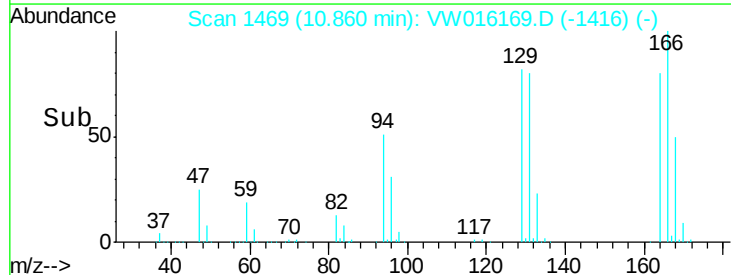
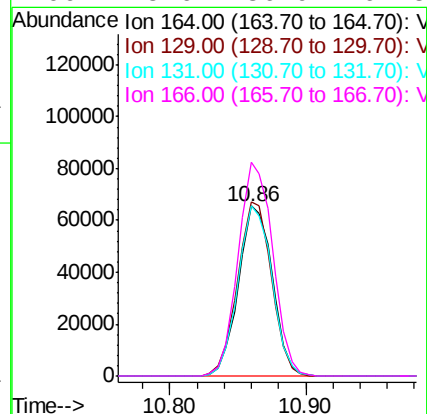
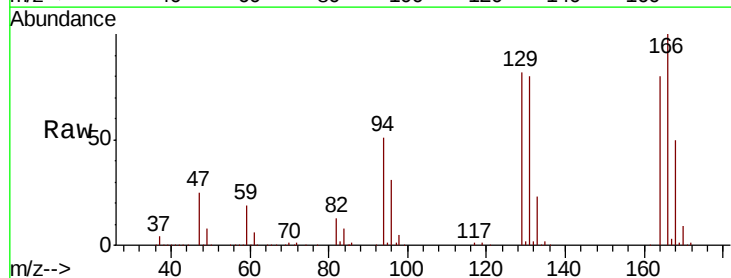
Instrument :  
 MSVOA\_W  
 ClientSampleId :

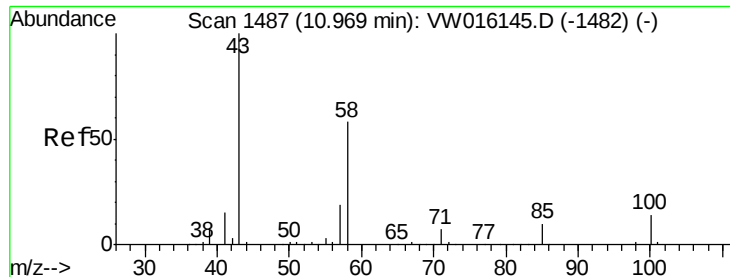
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 111475 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 84.7  | 57.8  | 107.4  |
| 85       | 54.9  | 38.0  | 70.6   |
| 99       | 65.8  | 44.4  | 82.4   |



#47  
 Tetrachloroethene  
 Concen: 26.206 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.01 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 114247 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 102.3 | 71.5  | 132.9  |
| 131      | 99.9  | 65.4  | 121.4  |
| 166      | 125.6 | 86.9  | 161.5  |





#49

2-Hexanone

Concen: 56.938 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 43 Resp: 122728

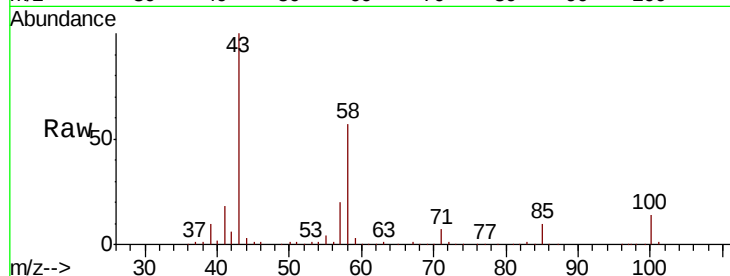
Ion Ratio Lower Upper

43 100

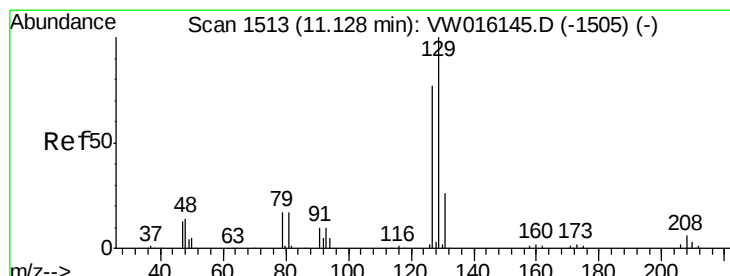
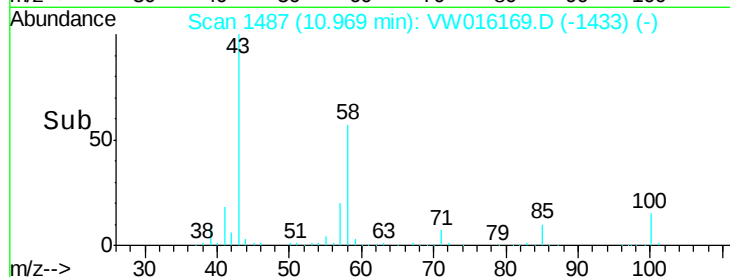
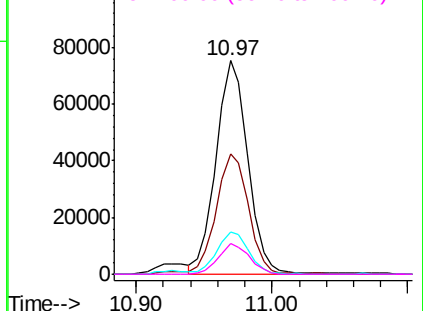
58 57.0 44.2 66.2

57 19.6 15.8 23.6

100 14.1 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW  
Ion 57.00 (56.70 to 57.70): VW  
Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 26.402 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW016169.D

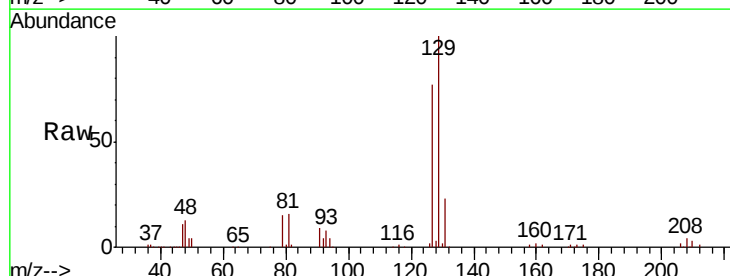
Acq: 12 Aug 2020 18:36

Tgt Ion: 129 Resp: 129996

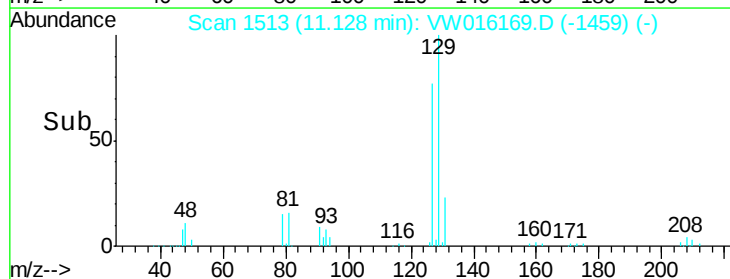
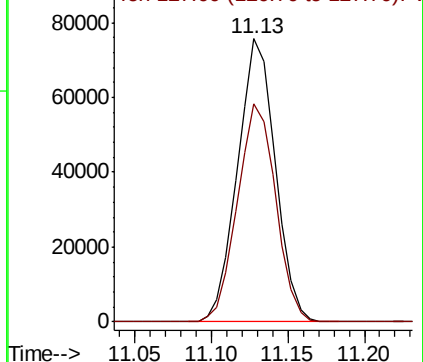
Ion Ratio Lower Upper

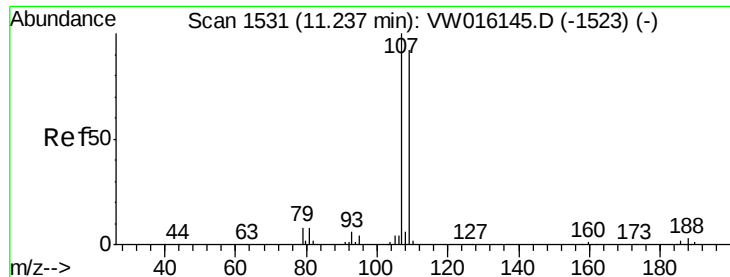
129 100

127 77.3 55.4 102.8



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 27.223 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

ClientSampleId :

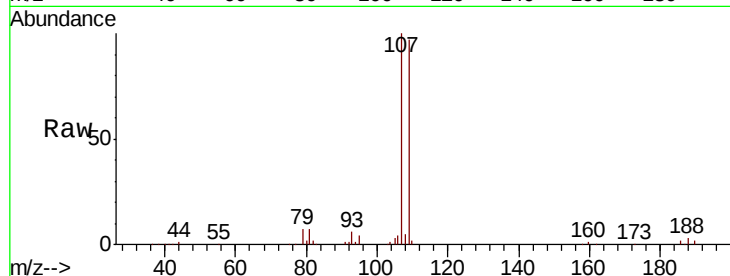
Tot Ion:107 Resp: 107895

Ion Ratio Lower Upper

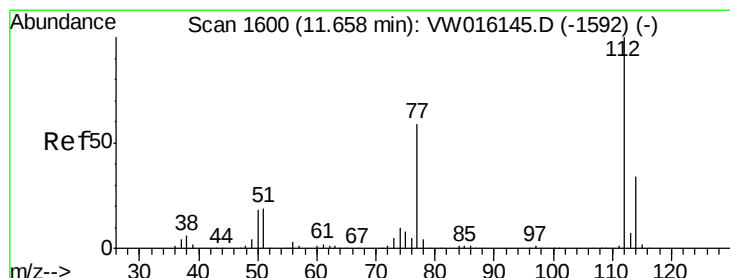
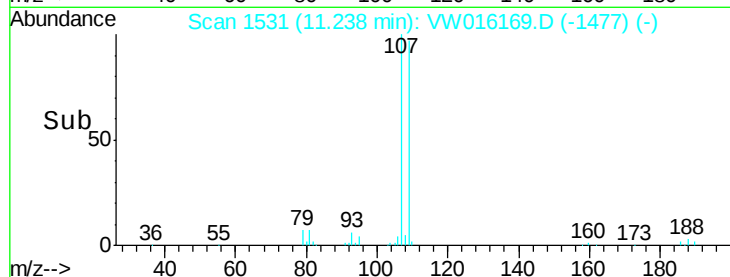
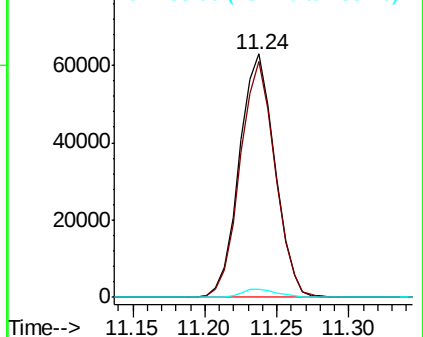
107 100

109 96.7 66.0 122.6

188 3.3 2.8 4.2



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 26.842 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

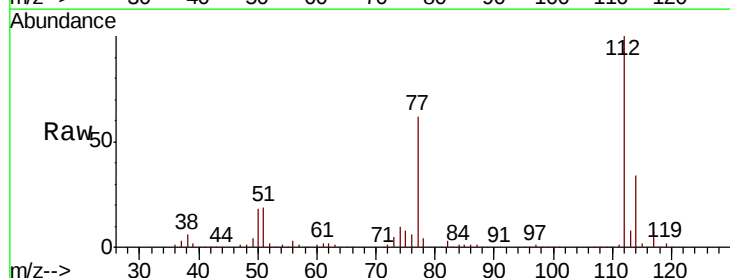
Tgt Ion:112 Resp: 405462

Ion Ratio Lower Upper

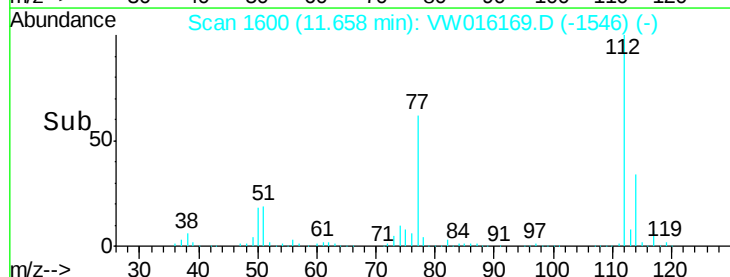
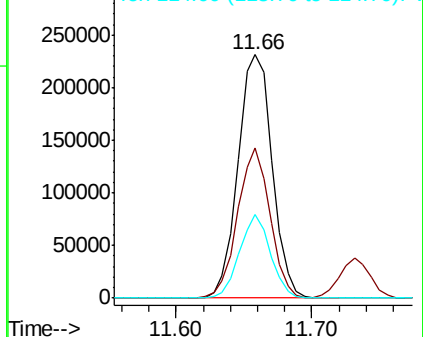
112 100

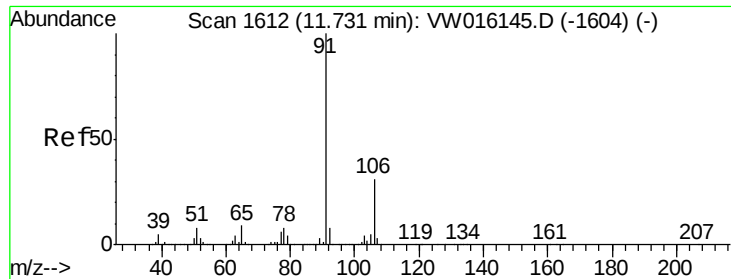
77 61.6 49.1 73.7

114 34.5 23.5 43.7



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 77.00 (76.70 to 77.70): V  
Ion 114.00 (113.70 to 114.70): V

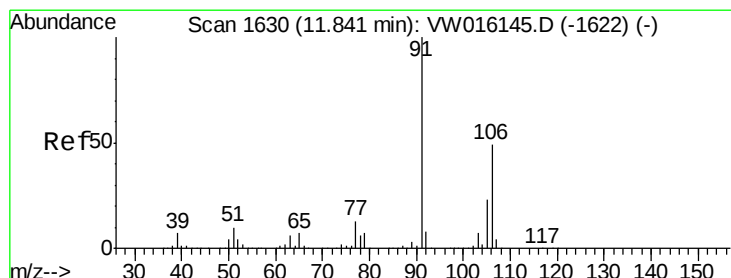
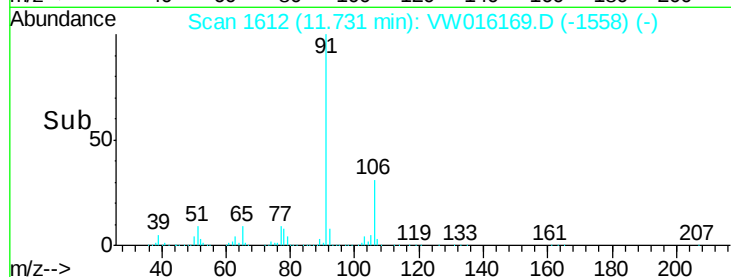
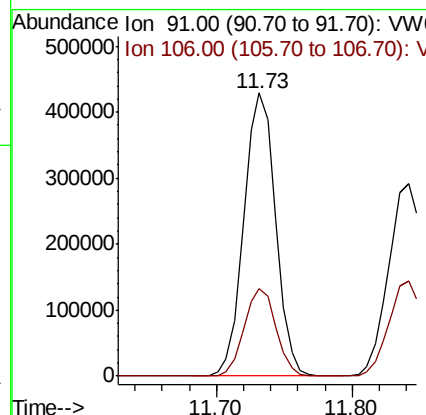
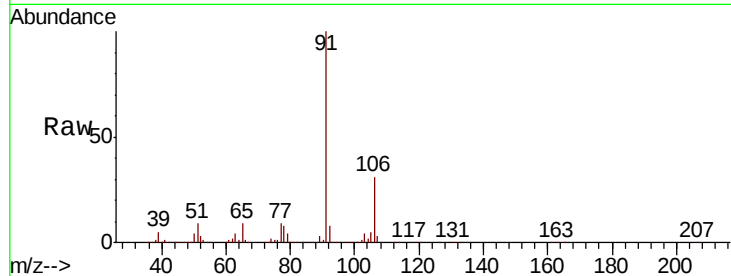




#53  
Ethylbenzene  
Concen: 26.978 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

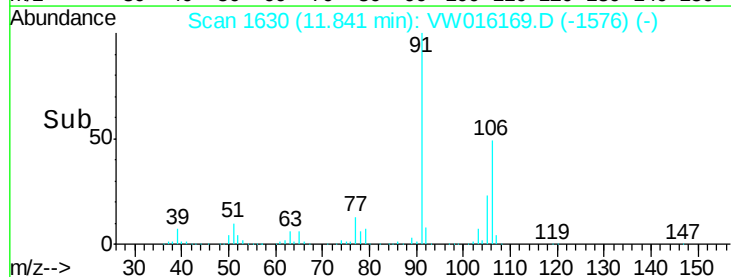
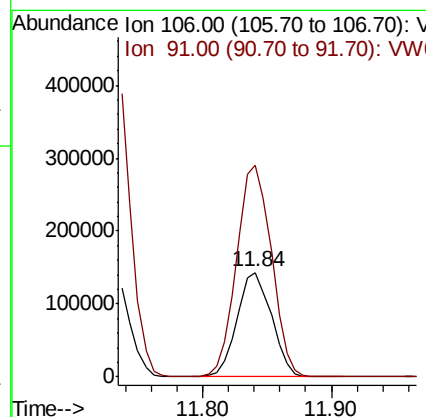
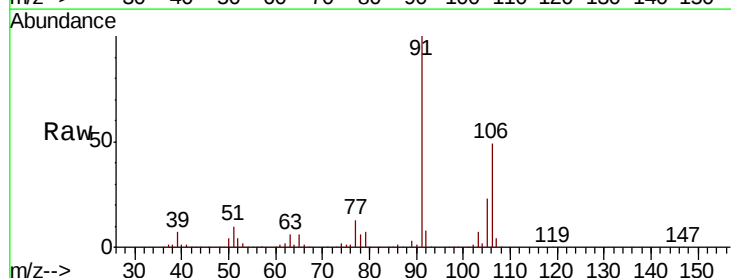
Instrument :  
MSVOA\_W  
ClientSampleId :

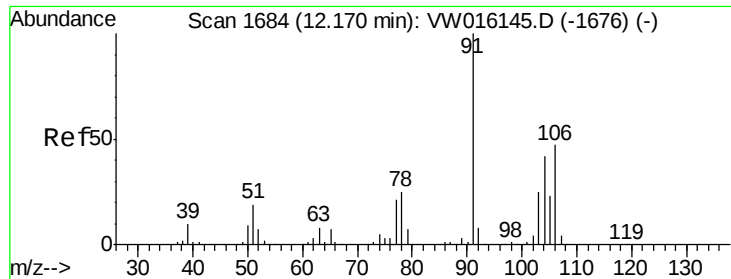
Tot Ion: 91 Resp: 698787  
Ion Ratio Lower Upper  
91 100  
106 31.0 21.8 40.4



#54  
m,p-Xylene  
Concen: 27.414 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Tgt Ion: 106 Resp: 267112  
Ion Ratio Lower Upper  
106 100  
91 202.8 136.4 253.2

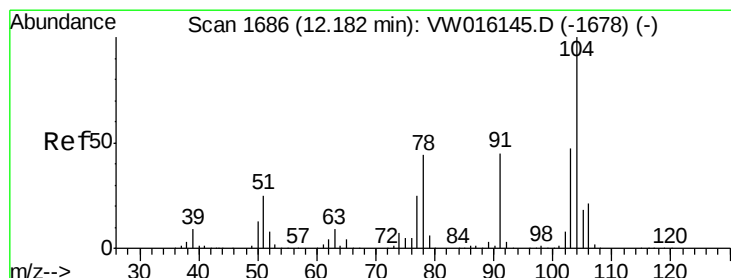
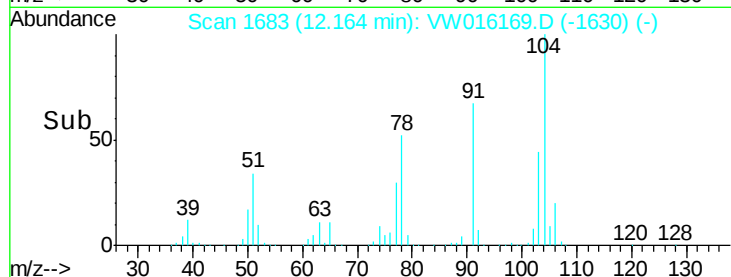
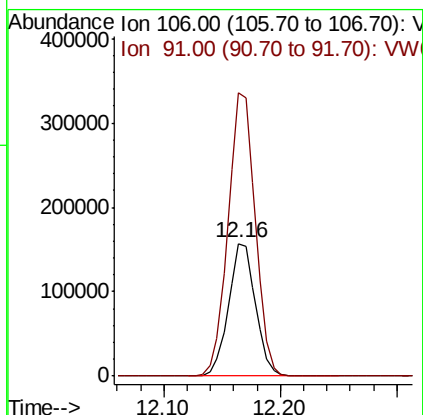
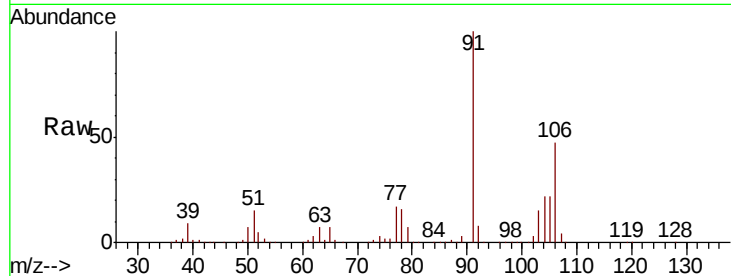




#55  
o-xylene  
Concen: 27.505 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

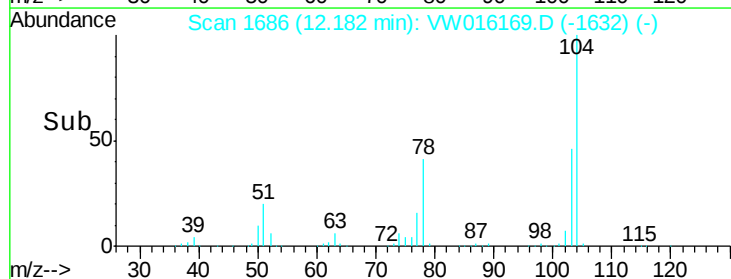
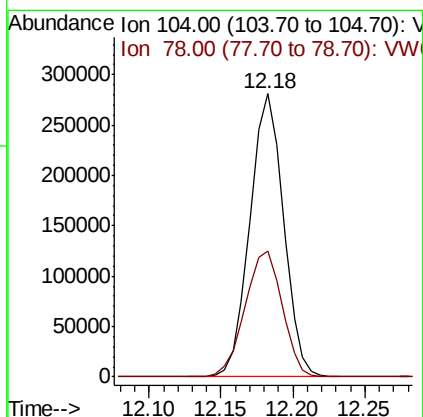
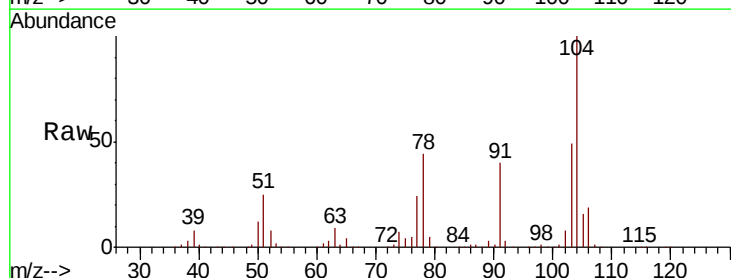
Instrument :  
MSVOA\_W  
ClientSampled :

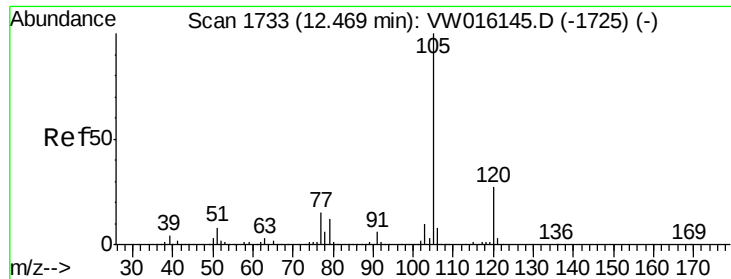
Tot Ion:106 Resp: 252430  
Ion Ratio Lower Upper  
106 100  
91 213.6 151.3 281.1



#56  
Styrene  
Concen: 28.511 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW016169.D  
Acq: 12 Aug 2020 18:36

Tgt Ion:104 Resp: 453030  
Ion Ratio Lower Upper  
104 100  
78 44.4 32.0 59.4





#57

Isopropylbenzene

Concen: 27.441 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

ClientSampled :

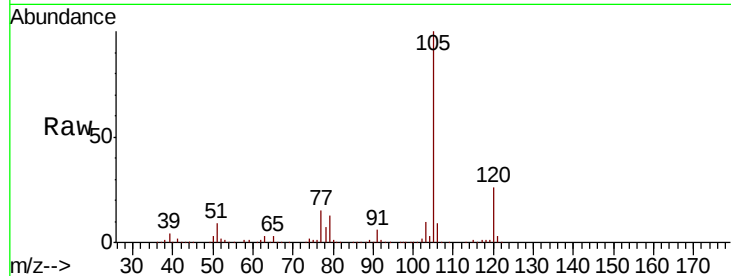
Tot Ion:105 Resp: 679018

Ion Ratio Lower Upper

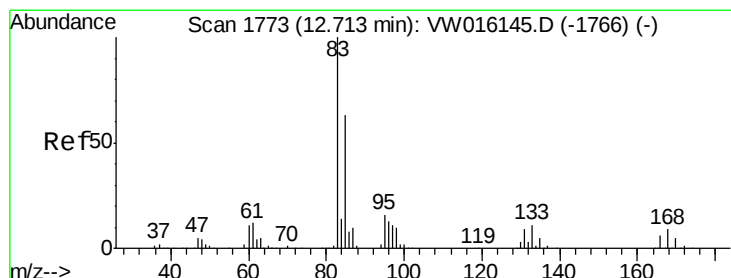
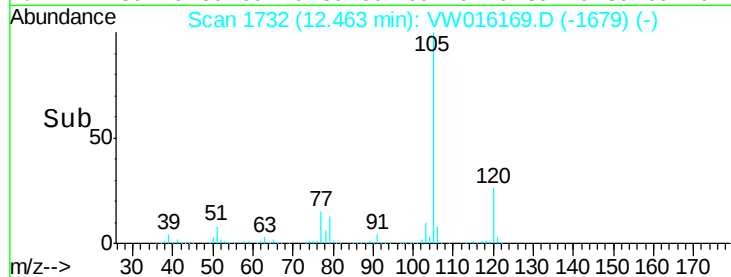
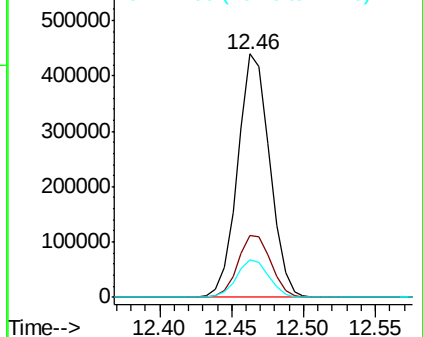
105 100

120 26.3 21.0 31.4

77 15.7 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V  
Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 27.637 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

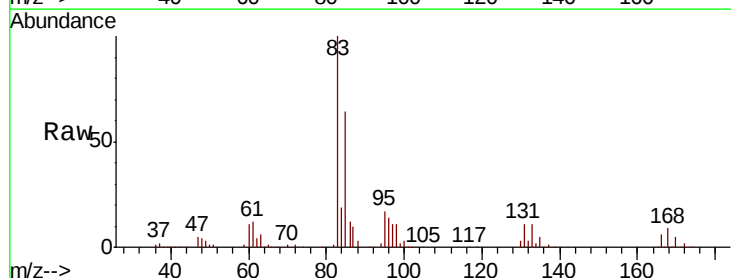
Tgt Ion: 83 Resp: 134809

Ion Ratio Lower Upper

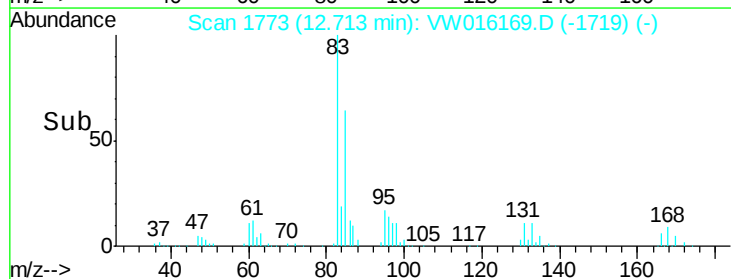
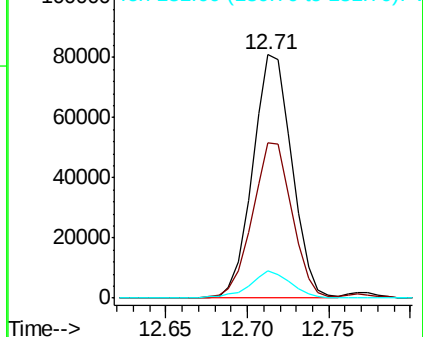
83 100

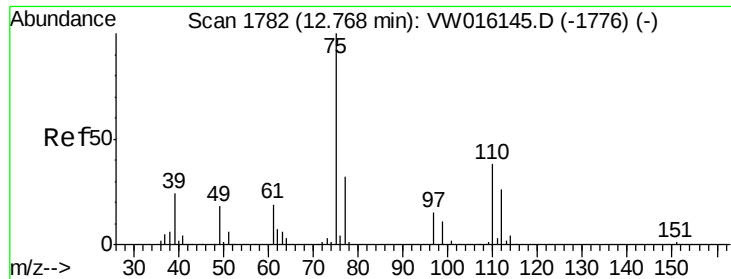
85 63.9 42.4 78.8

131 11.2 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VW  
Ion 85.00 (84.70 to 85.70): VW  
Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 26.753 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

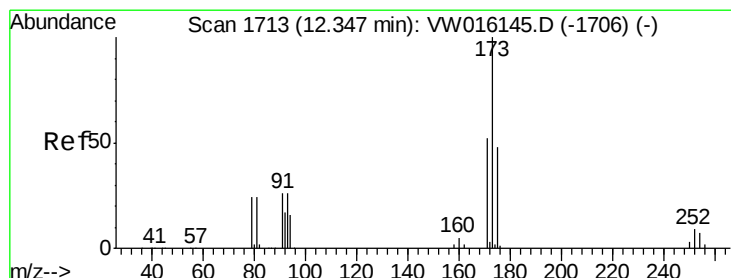
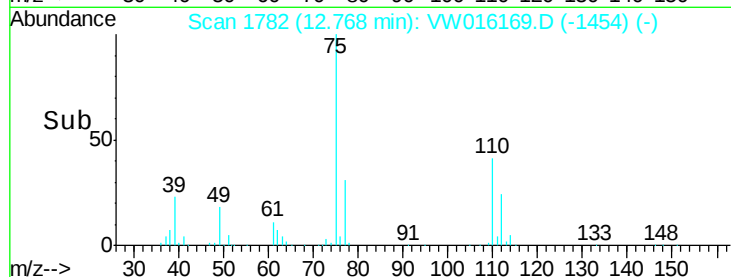
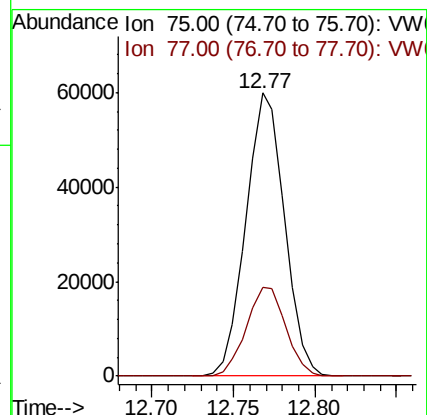
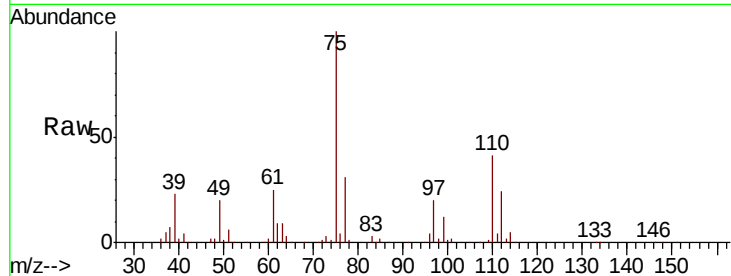
ClientSampleId :

Tot Ion: 75 Resp: 98863

Ion Ratio Lower Upper

75 100

77 32.1 25.9 38.9



#62

Bromoform

Concen: 24.408 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

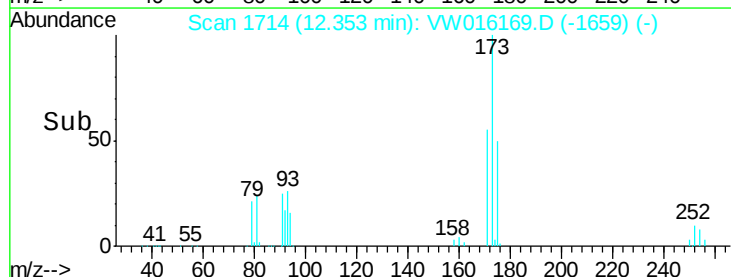
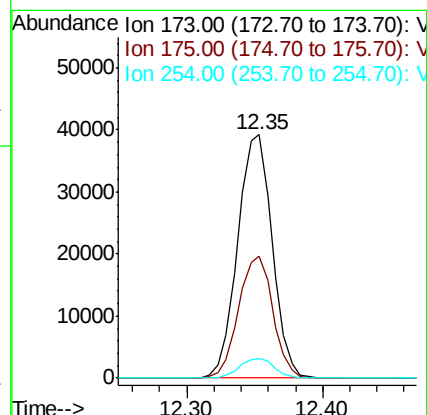
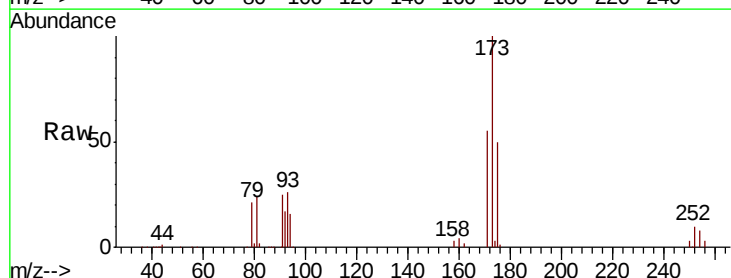
Tgt Ion: 173 Resp: 69421

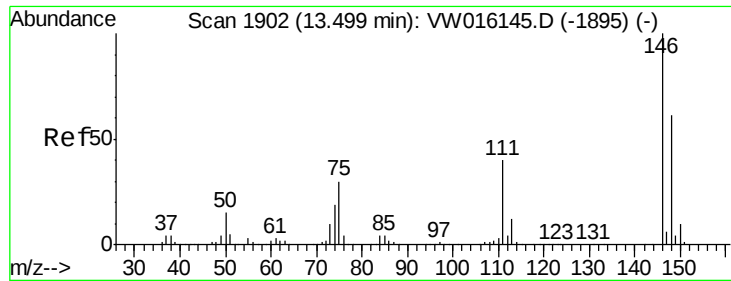
Ion Ratio Lower Upper

173 100

175 49.8 37.8 56.6

254 8.2 6.8 10.2

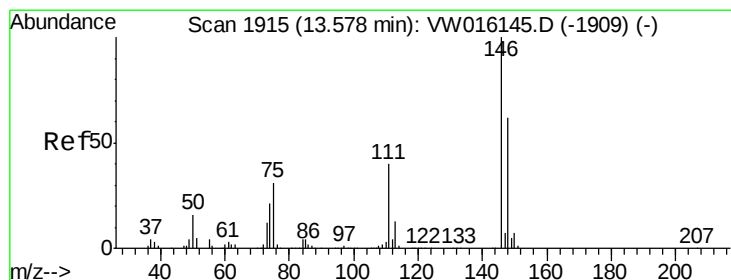
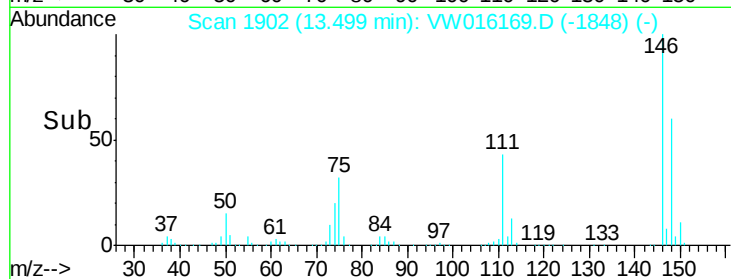
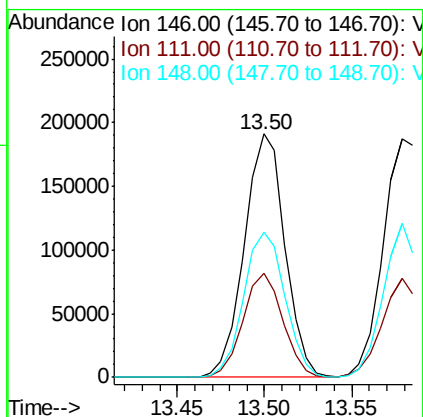
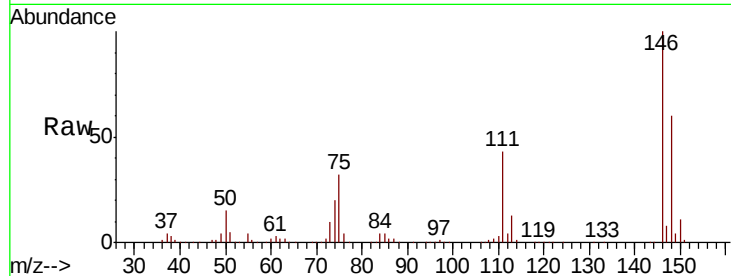




#63  
 1,3-Dichlorobenzene  
 Concen: 25.898 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

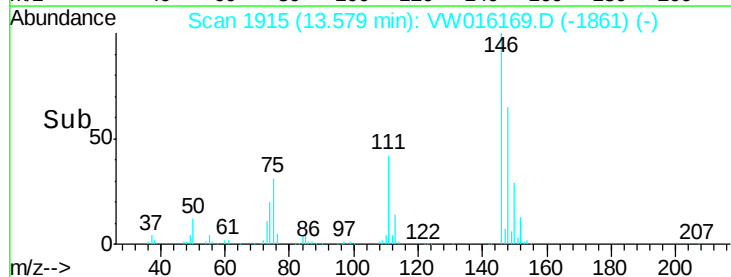
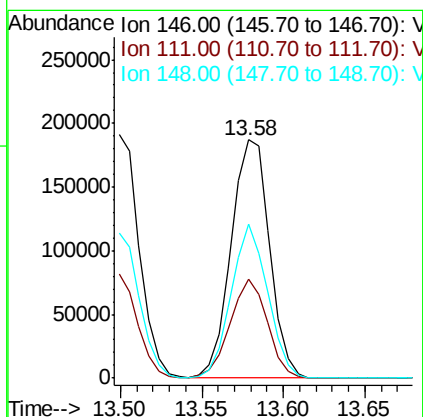
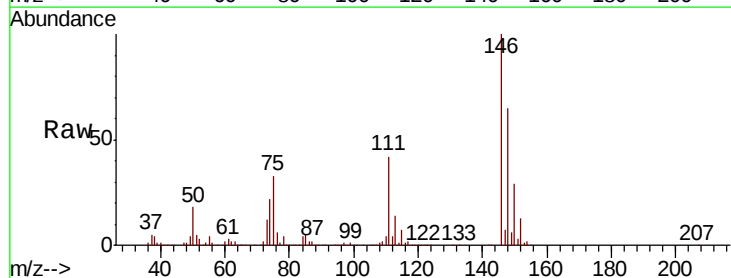
Instrument :  
 MSVOA\_W  
 ClientSampled :

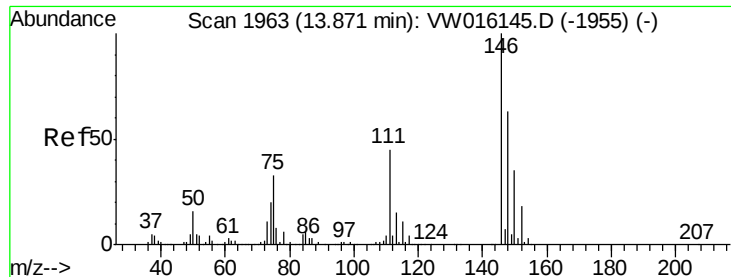
Tot Ion:146 Resp: 307652  
 Ion Ratio Lower Upper  
 146 100  
 111 42.8 28.9 53.7  
 148 59.5 44.7 82.9



#64  
 1,4-Dichlorobenzene  
 Concen: 25.414 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

Tgt Ion:146 Resp: 307549  
 Ion Ratio Lower Upper  
 146 100  
 111 41.6 28.6 53.2  
 148 64.9 47.7 88.5

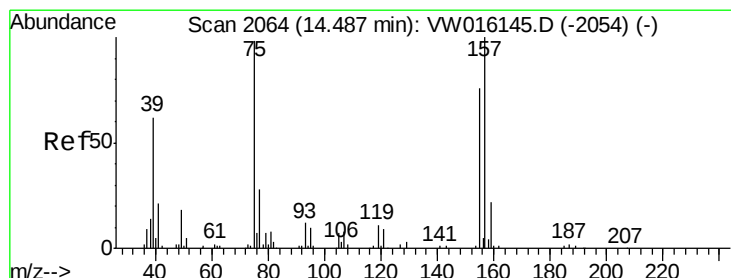
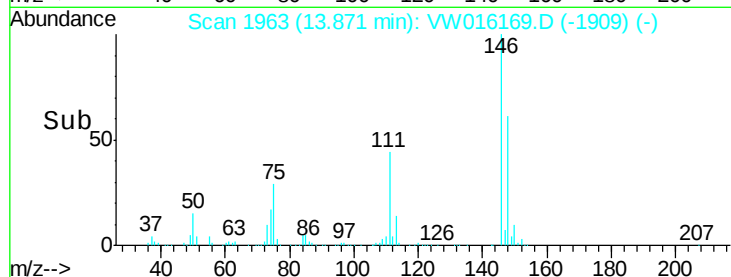
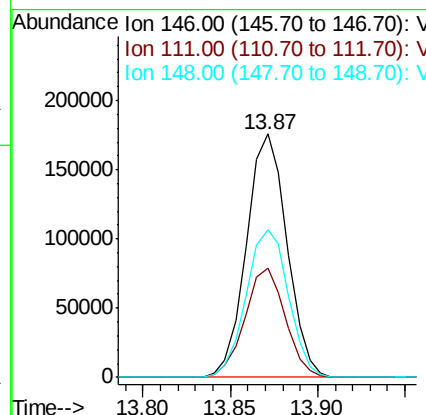
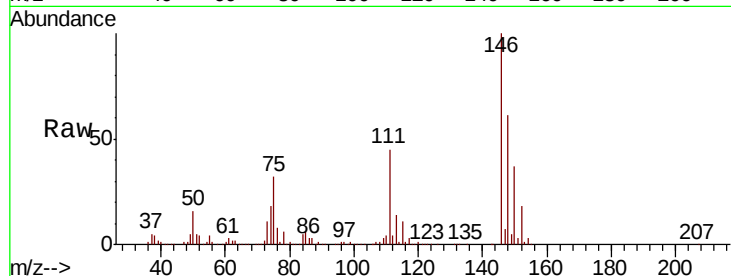




#65  
 1,2-Dichlorobenzene  
 Concen: 26.046 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

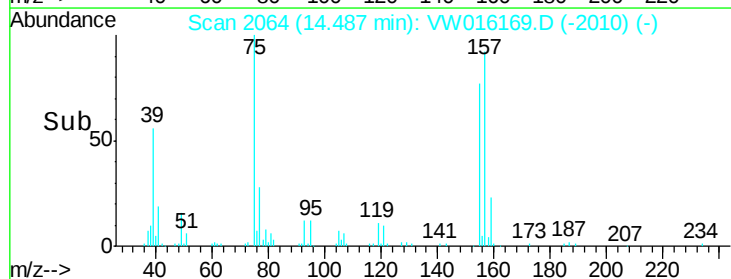
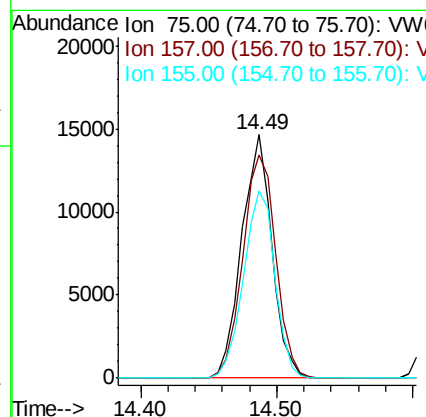
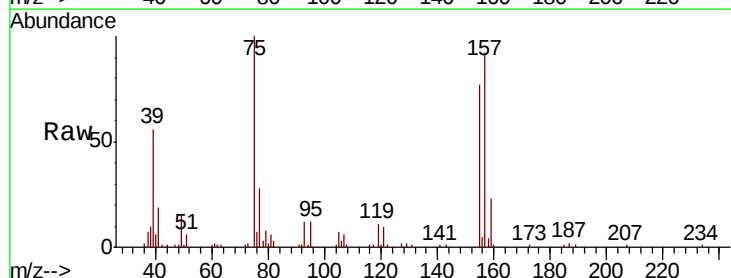
Instrument :  
 MSVOA\_W  
 ClientSampleId :

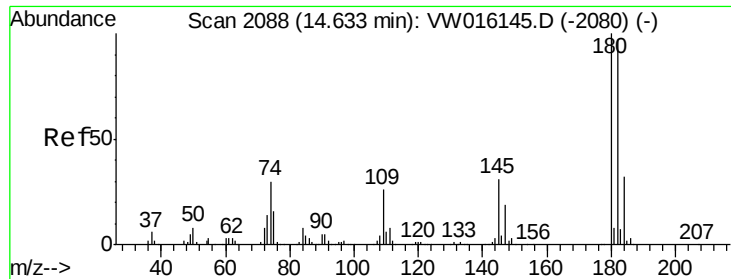
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.6  | 35.3  | 52.9  |
| 148     | 60.9  | 49.0  | 73.4  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 23.700 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 157     | 91.6  | 73.9  | 110.9 |
| 155     | 76.7  | 63.4  | 95.2  |

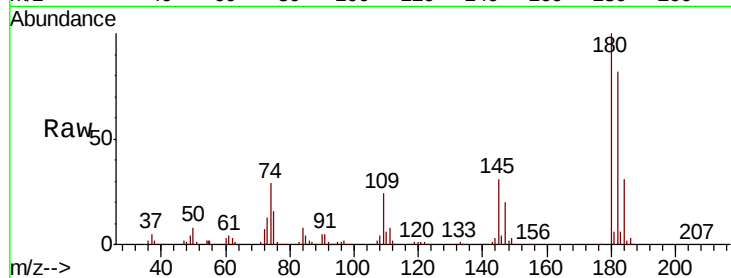




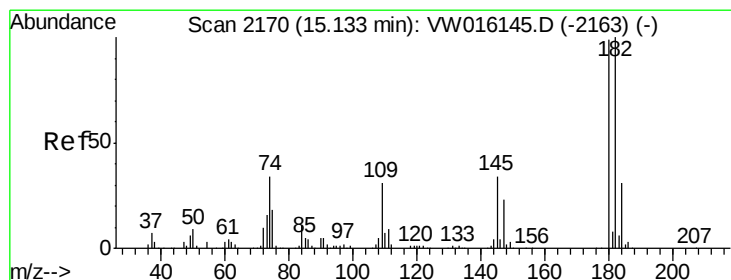
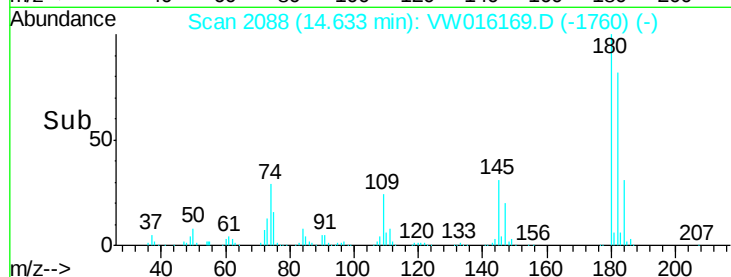
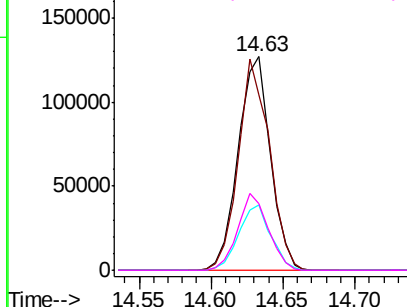
#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.333 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 197389     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.5  | 76.3 114.5 |
| 184         | 30.3  | 25.1 37.7  |
| 145         | 33.9  | 26.9 40.3  |

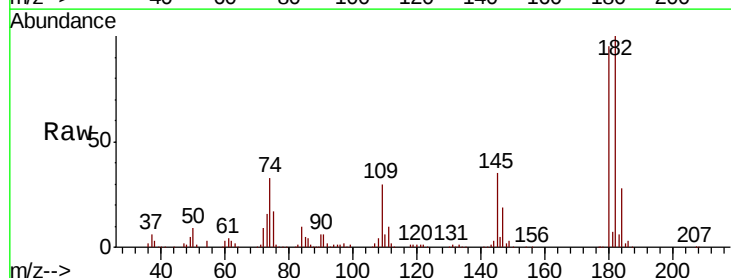


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

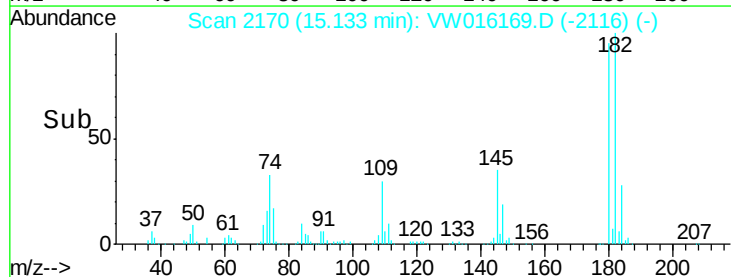
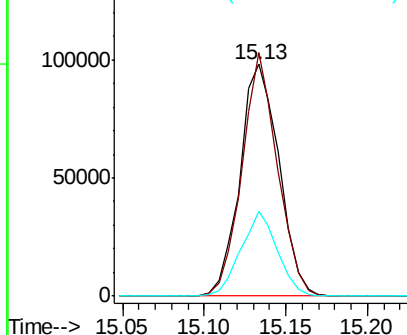


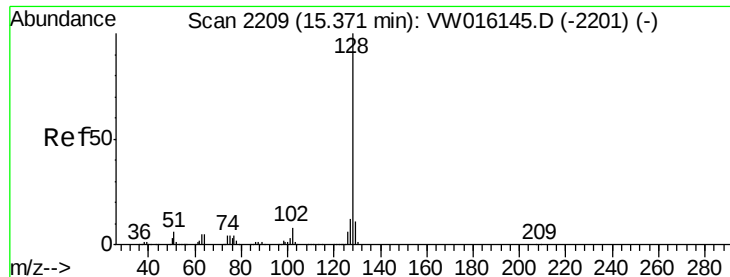
#68  
 1,2,4-trichlorobenzene  
 Concen: 26.851 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW016169.D  
 Acq: 12 Aug 2020 18:36

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 163129     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.4  | 77.8 116.8 |
| 145         | 34.4  | 26.5 39.7  |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.976 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

Instrument :

MSVOA\_W

ClientSampleId :

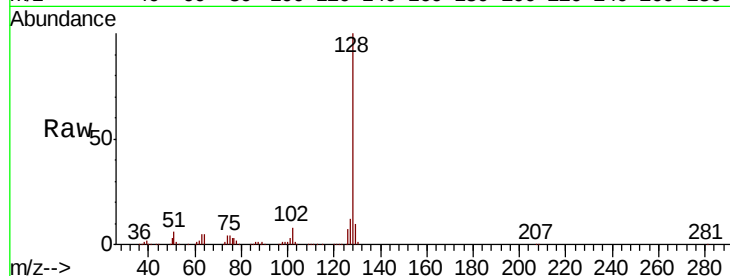
Tot Ion:128 Resp: 371574

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

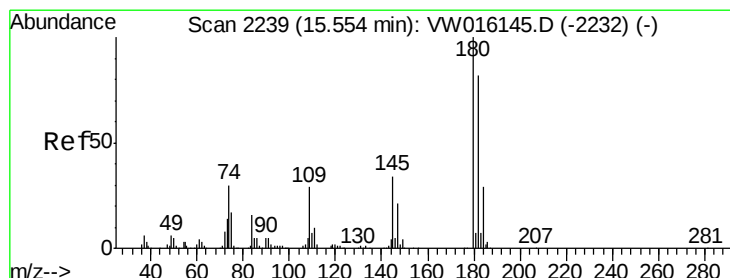
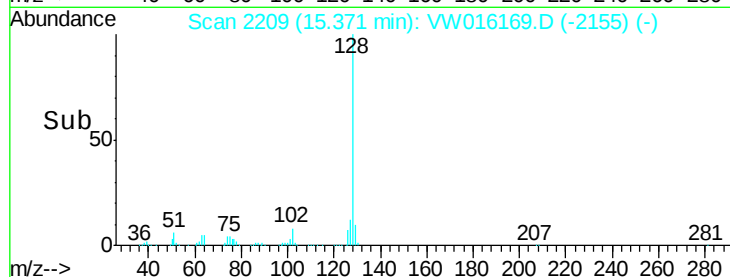
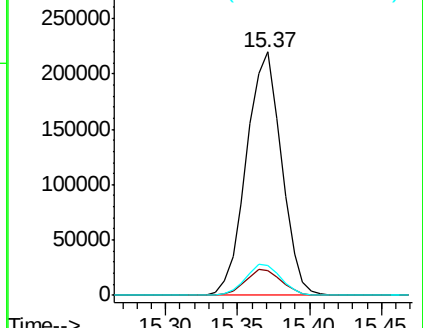
127 12.9 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.712 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW016169.D

Acq: 12 Aug 2020 18:36

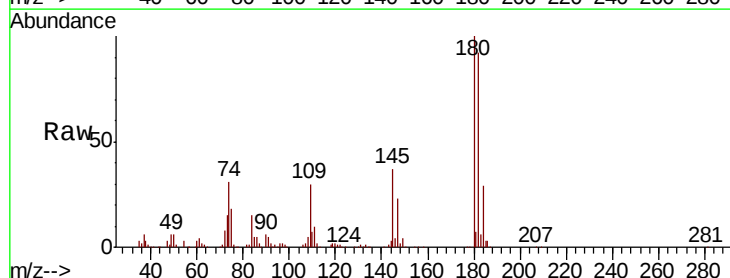
Tgt Ion:180 Resp: 152954

Ion Ratio Lower Upper

180 100

182 95.1 76.0 114.0

145 36.8 29.9 44.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

